S01P0061**00

FIG. 1

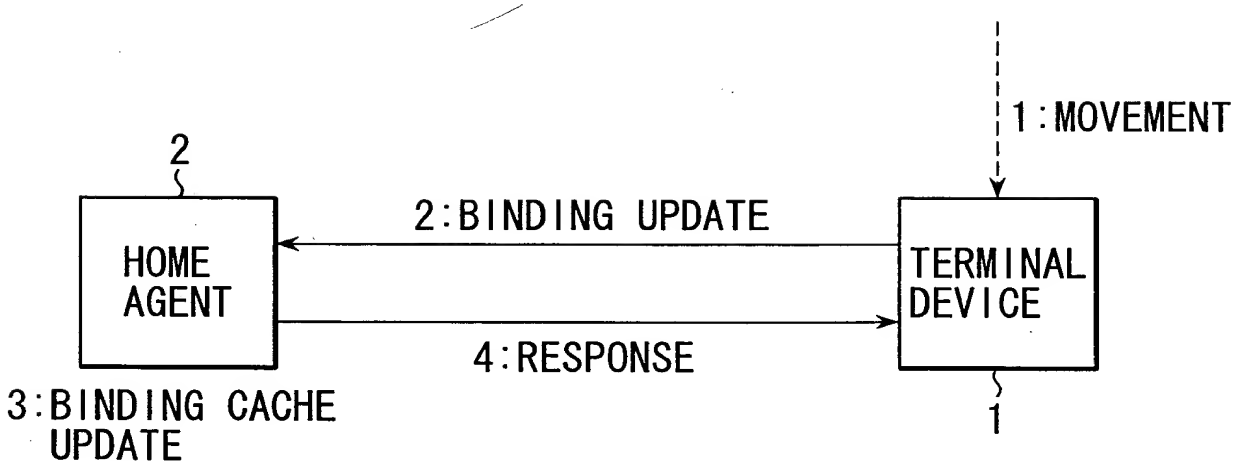


FIG. 2

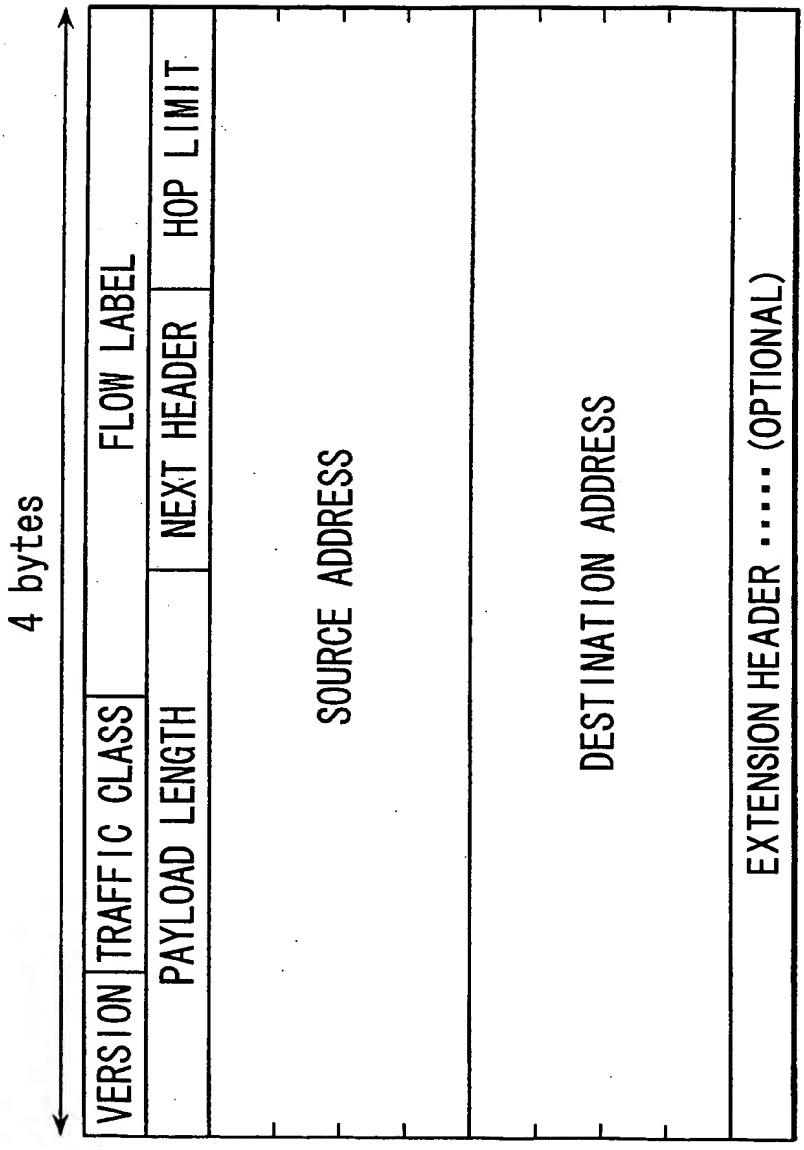

4 bytes
VERSION
TRAFFIC CLASS
FLOW LABEL
PAYLOAD LENGTH
NEXT HEADER
HOP LIMIT
SOURCE ADDRESS
DESTINATION ADDRESS
EXTENSION HEADER ..... (OPTIONAL)

FIG. 3

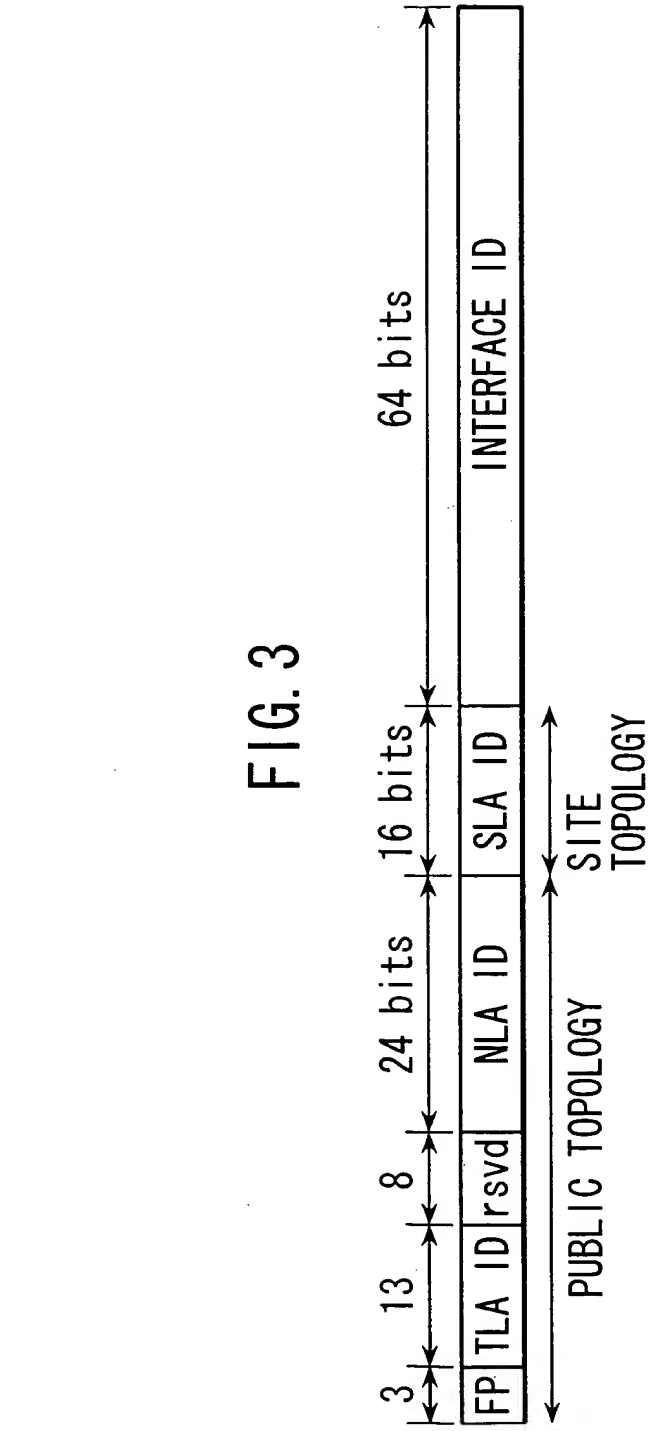

64 bits
16 bits
24 bits
8
13
3
FP
TLA ID
rsvd
NLA ID
SLA ID
INTERFACE ID
PUBLIC TOPOLOGY
SITE TOPOLOGY

FIG. 4

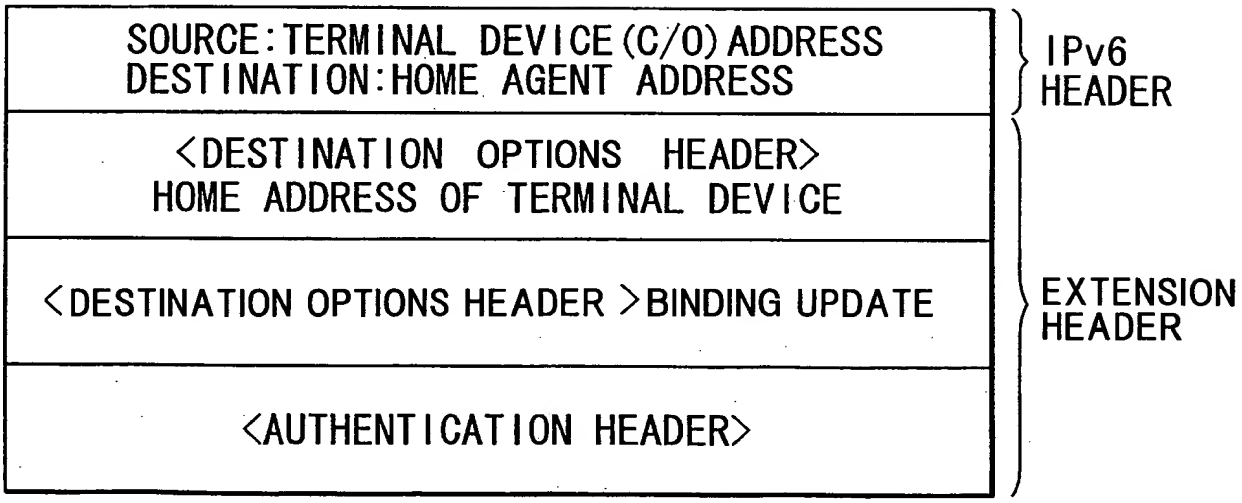

SOURCE:TERMINAL DEVICE(C/O)ADDRESS
DESTINATION:HOME AGENT ADDRESS
IPv6 HEADER
<DESTINATION OPTIONS HEADER>
HOME ADDRESS OF TERMINAL DEVICE
<DESTINATION OPTIONS HEADER >BINDING UPDATE
<AUTHENTICATION HEADER>
EXTENSION HEADER

FIG. 5

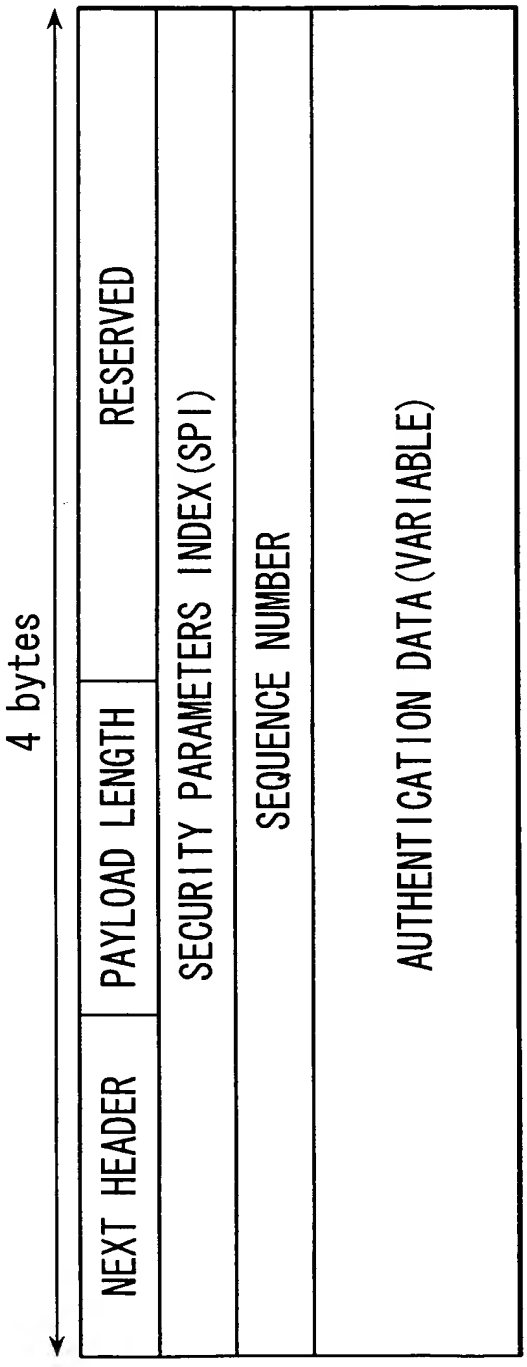

4 bytes
NEXT HEADER
PAYLOAD LENGTH
RESERVED
SECURITY PARAMETERS INDEX(SPI)
SEQUENCE NUMBER
AUTHENTICATION DATA(VARIABLE)

FIG. 6

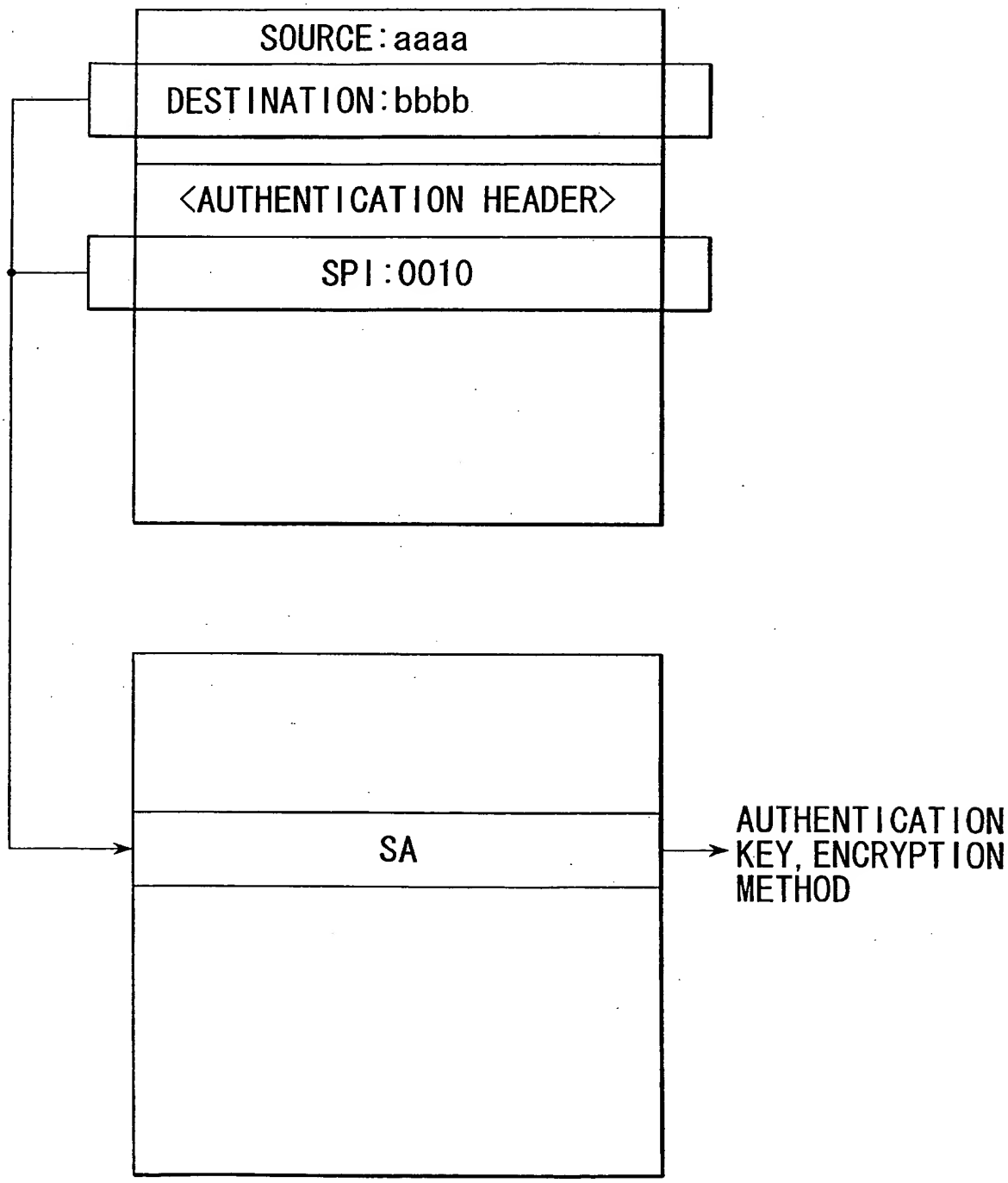

SOURCE:aaaa
DESTINATION:bbbb
<AUTHENTICATION HEADER>
SPI:0010
SA
AUTHENTICATION KEY, ENCRYPTION METHOD

FIG. 7

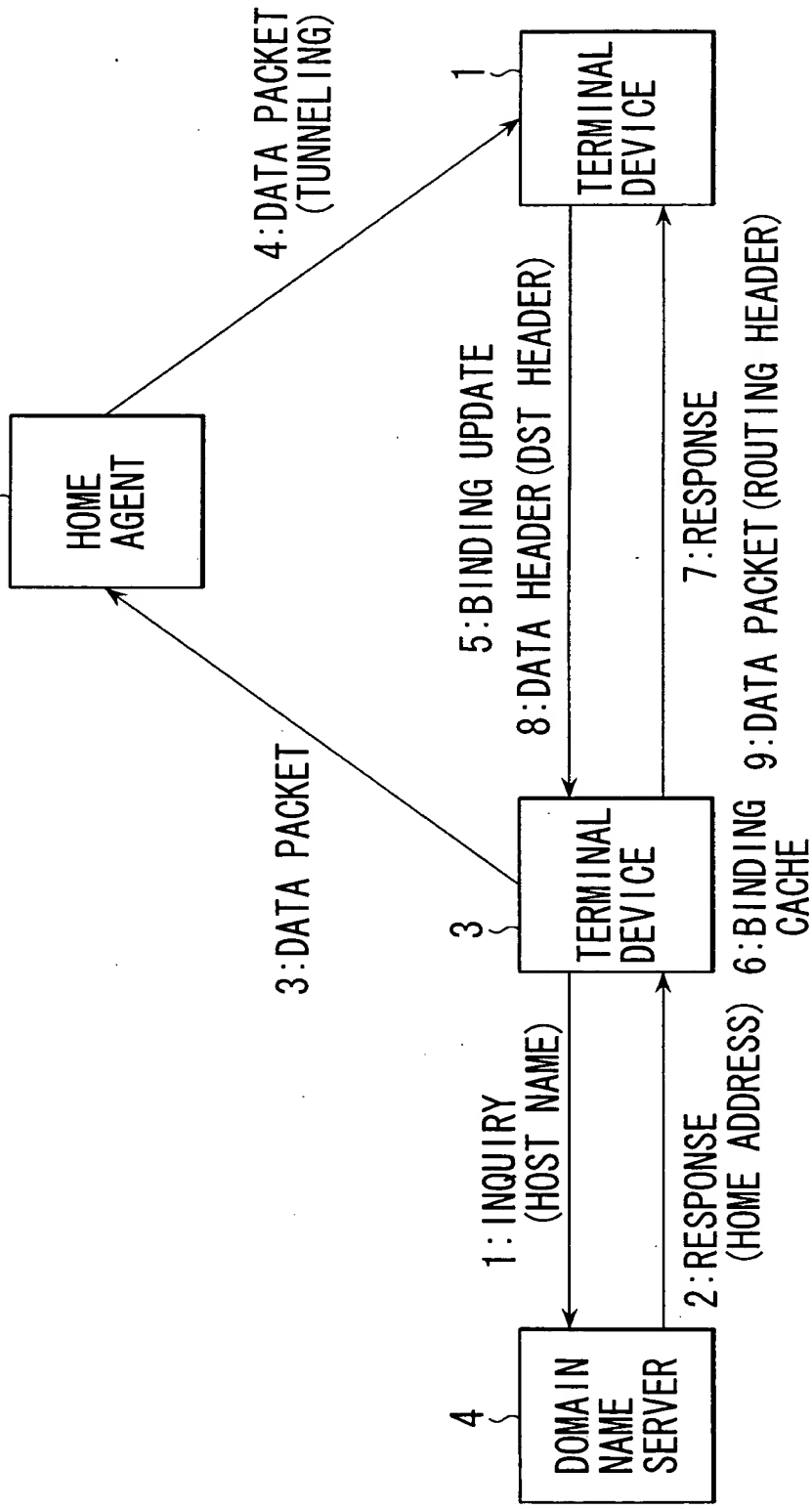

1
TERMINAL DEVICE
2
HOME AGENT
3
TERMINAL DEVICE
4
DOMAIN NAME SERVER
4:DATA PACKET (TUNNELING)
3:DATA PACKET
5:BINDING UPDATE
8:DATA HEADER (DST HEADER)
7:RESPONSE
9:DATA PACKET (ROUTING HEADER)
6:BINDING CACHE
1:INQUIRY (HOST NAME)
2:RESPONSE (HOME ADDRESS)

FIG. 8

HOST NAME	HOME ADDRESS
aaaa	XXXX
bbbb	YYYY
cccc	ZZZZ
⋮	⋮

FIG. 9

SOURCE:TERMINAL DEVICE 3 ADDRESS DESTINATION:HOME ADDRESS OF TERMINAL DEVICE 1
DATA

FIG. 10

SOURCE:ADDRESS OF HOME AGENT 2 DESTINATION:TERMINAL DEVICE 1 (C/O) ADDRESS
SOURCE:TERMINAL DEVICE 3 ADDRESS DESTINATION:HOME ADDRESS OF TERMINAL DEVICE 1
DATA

FIG. 11

SOURCE:TERMINAL DEVICE 1 (C/O) ADDRESS DESTINATION:TERMINAL DEVICE 3 ADDRESS
<DESTINATION OPTIONS HEADER> HOME ADDRESS OF TERMINAL DEVICE 1
DATA

FIG. 12

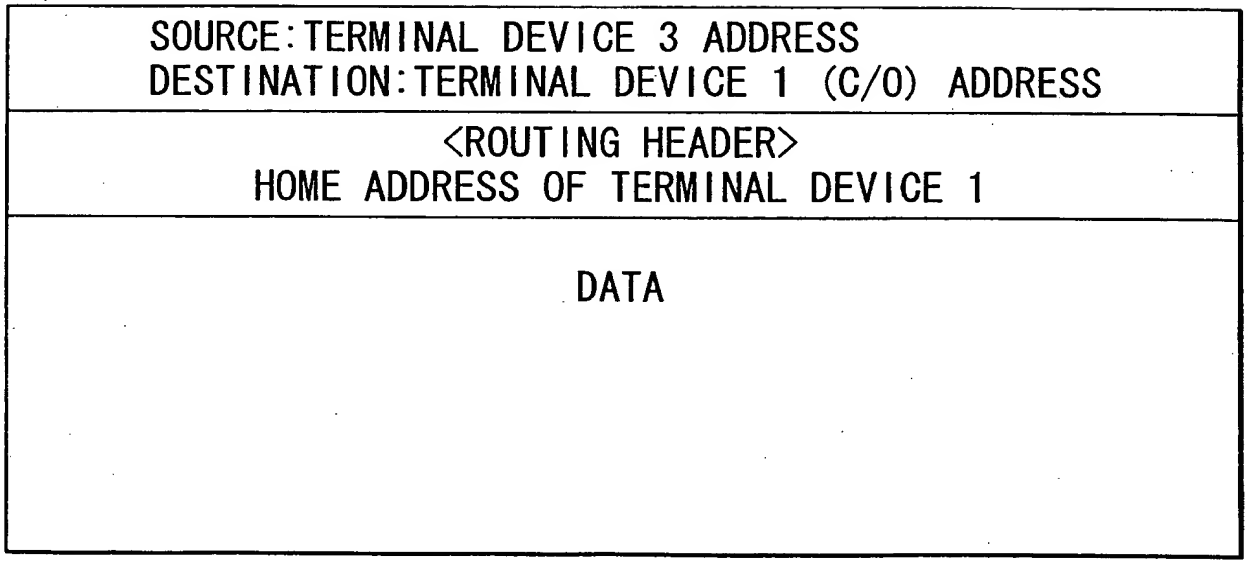

SOURCE:TERMINAL DEVICE 3 ADDRESS
DESTINATION:TERMINAL DEVICE 1 (C/O) ADDRESS
<ROUTING HEADER>
HOME ADDRESS OF TERMINAL DEVICE 1
DATA

FIG. 13

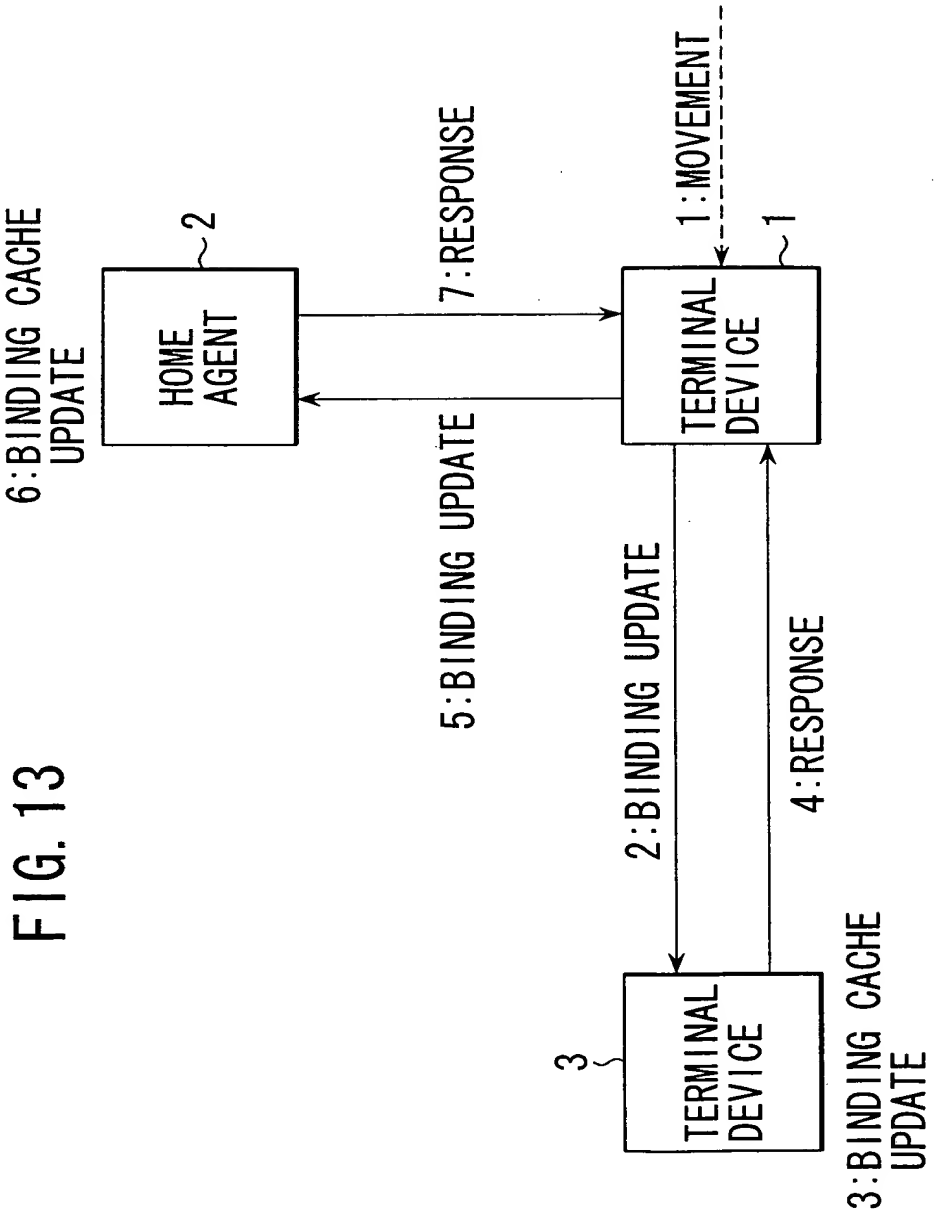

HOME AGENT
2
TERMINAL DEVICE
1
TERMINAL DEVICE
3
1:MOVEMENT
2:BINDING UPDATE
3:BINDING CACHE UPDATE
4:RESPONSE
5:BINDING UPDATE
6:BINDING CACHE UPDATE
7:RESPONSE

FIG. 14

SOURCE:TERMINAL DEVICE 1 (C/O) ADDRESS DESTINATION:TERMINAL DEVICE 3 ADDRESS
<DESTINATION OPTIONS HEADER> HOME ADDRESS OF TERMINAL DEVICE 1
<DESTINATION OPTIONS HEADER> BINDING UPDATE
<AUTHENTICATION HEADER>

FIG. 15

SOURCE:TERMINAL DEVICE 1 (C/O) ADDRESS DESTINATION:HOME AGENT ADDRESS
<DESTINATION OPTIONS HEADER> HOME ADDRESS OF TERMINAL DEVICE 1
<DESTINATION OPTIONS HEADER> BINDING UPDATE
<AUTHENTICATION HEADER>

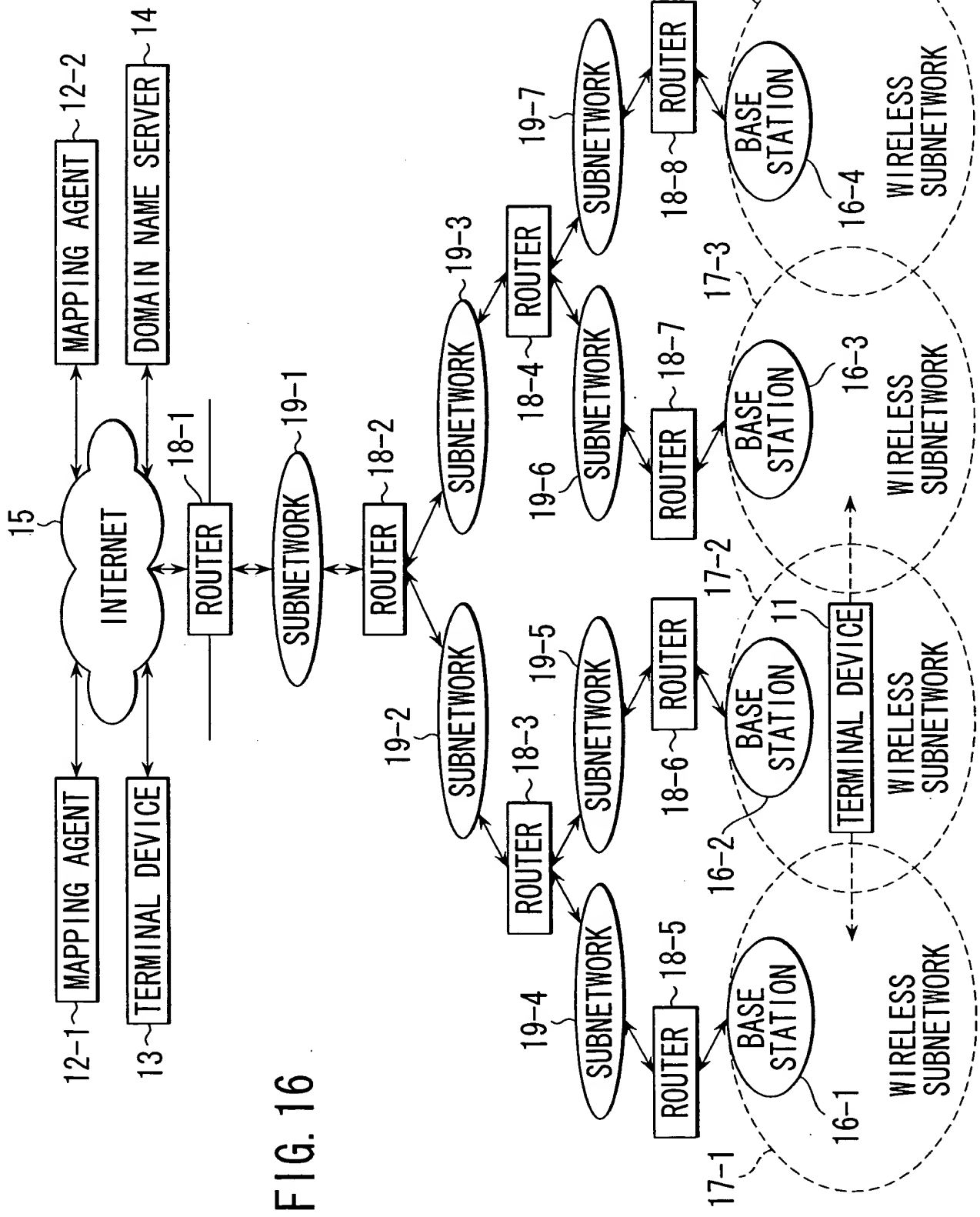

MAPPING AGENT
12-1
TERMINAL DEVICE
13
MAPPING AGENT
12-2
DOMAIN NAME SERVER
14
15
INTERNET
ROUTER
18-1
SUBNETWORK
19-1
ROUTER
18-2
SUBNETWORK
19-2
SUBNETWORK
19-3
ROUTER
18-3
ROUTER
18-4
SUBNETWORK
19-4
SUBNETWORK
19-5
SUBNETWORK
19-6
SUBNETWORK
19-7
ROUTER
18-5
ROUTER
18-6
ROUTER
18-7
ROUTER
18-8
BASE STATION
16-1
BASE STATION
16-2
BASE STATION
16-3
BASE STATION
16-4
TERMINAL DEVICE
11
17-1
17-2
17-3
17-4
WIRELESS SUBNETWORK
WIRELESS SUBNETWORK
WIRELESS SUBNETWORK
WIRELESS SUBNETWORK

FIG. 16

FIG. 17

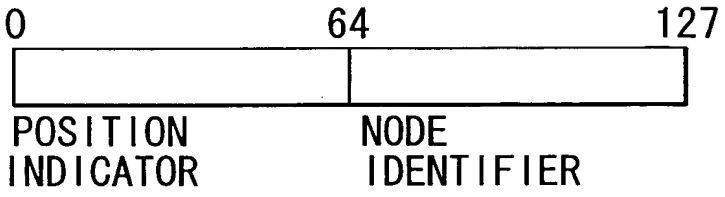

0
64
127
POSITION INDICATOR
NODE IDENTIFIER

FIG. 18

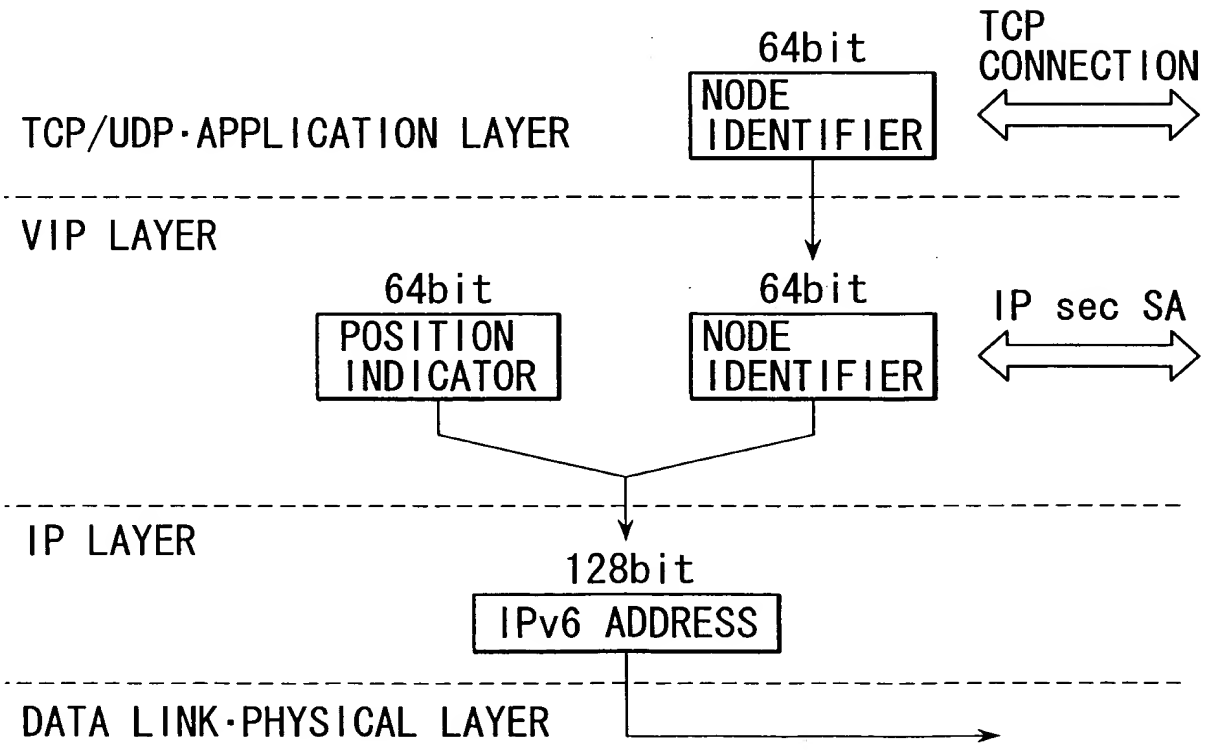

64bit
NODE IDENTIFIER
TCP CONNECTION
TCP/UDP·APPLICATION LAYER
VIP LAYER
64bit
POSITION INDICATOR
64bit
NODE IDENTIFIER
IP sec SA
IP LAYER
128bit
IPv6 ADDRESS
DATA LINK·PHYSICAL LAYER

FIG. 19

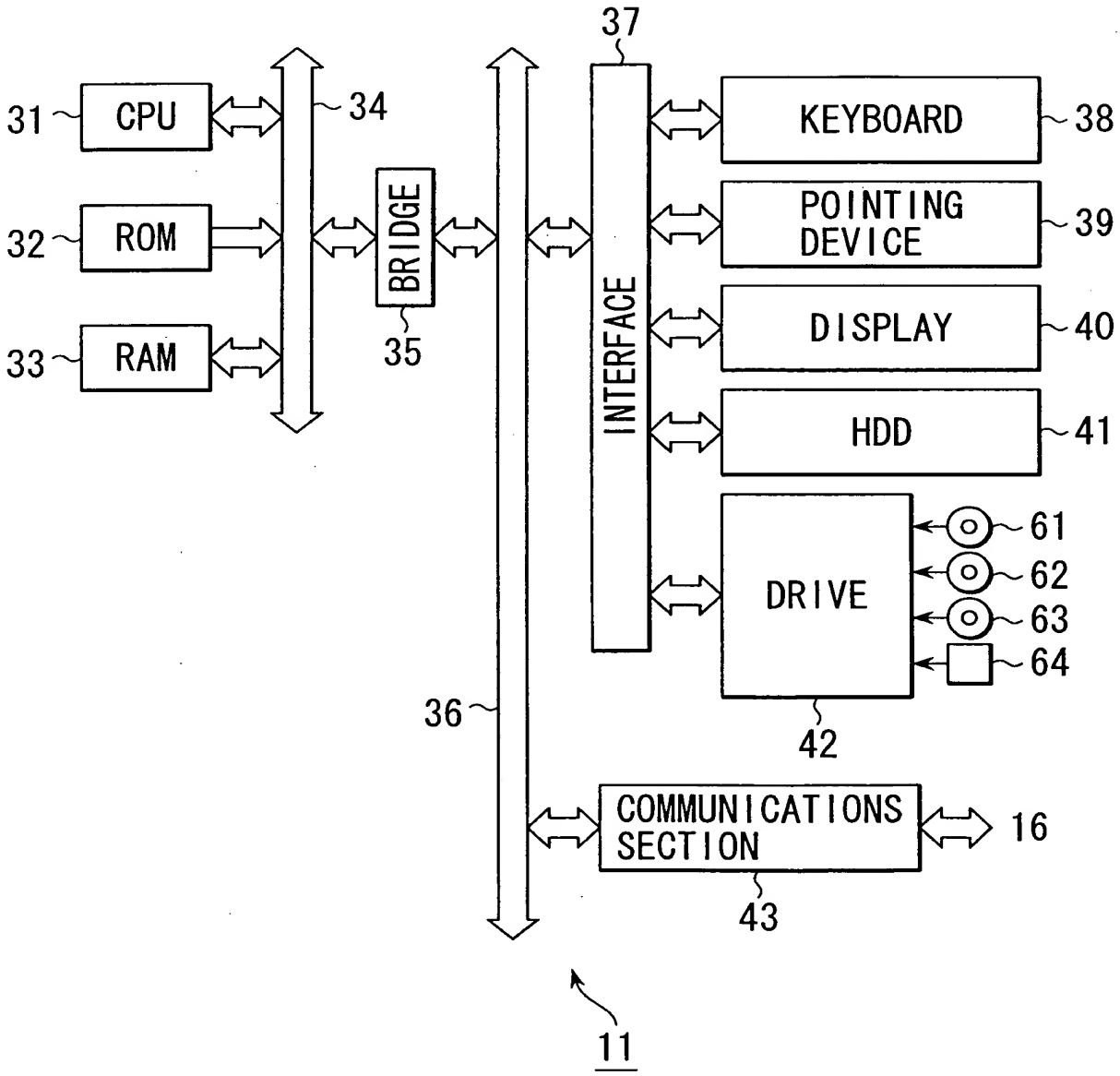

37
31
CPU
34
KEYBOARD
38
32
ROM
BRIDGE
POINTING DEVICE
39
33
RAM
35
INTERFACE
DISPLAY
40
HDD
41
61
DRIVE
62
63
64
36
42
COMMUNICATIONS SECTION
16
43
11

FIG. 20

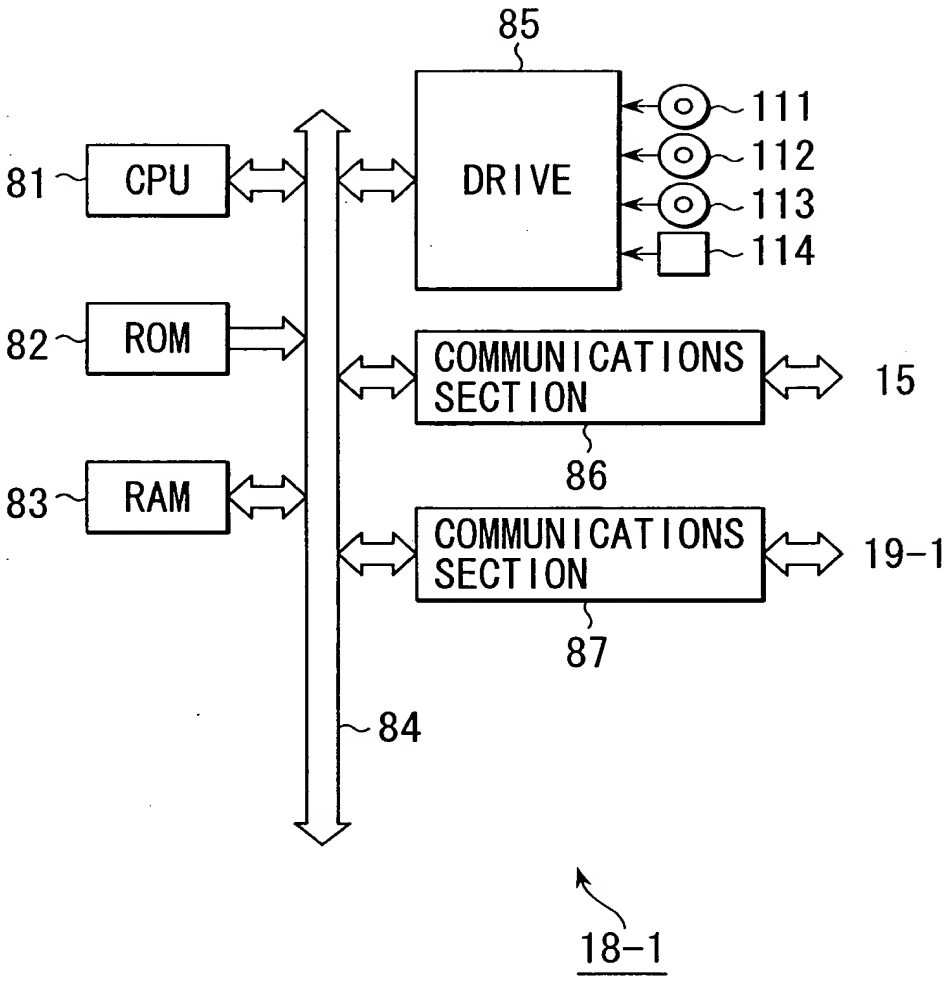

85
81
CPU
DRIVE
111
112
113
114
82
ROM
COMMUNICATIONS SECTION
15
86
83
RAM
COMMUNICATIONS SECTION
19-1
87
84
18-1

FIG. 21

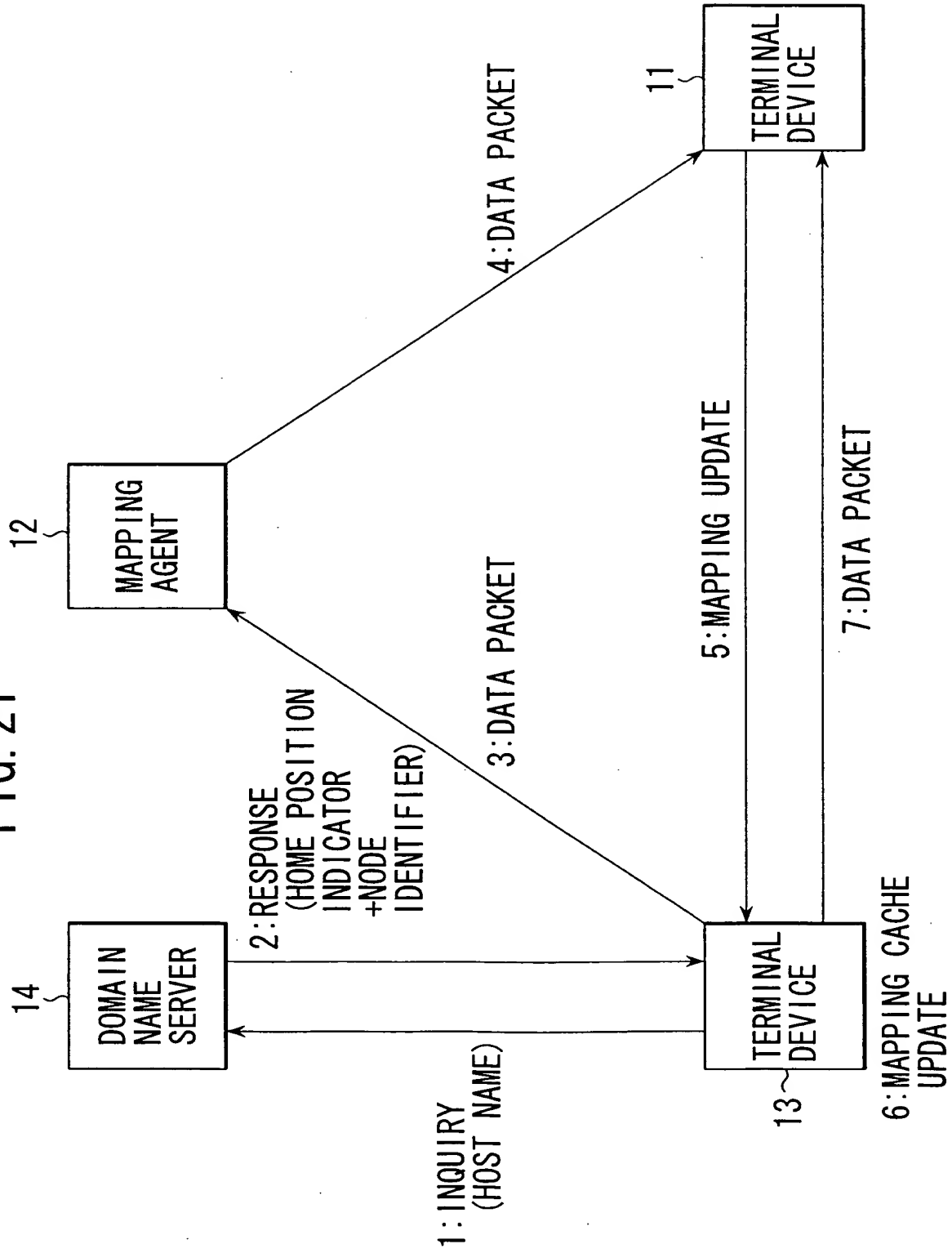

14
DOMAIN NAME SERVER
12
MAPPING AGENT
11
TERMINAL DEVICE
13
TERMINAL DEVICE
1: INQUIRY (HOST NAME)
2: RESPONSE (HOME POSITION INDICATOR +NODE IDENTIFIER)
3: DATA PACKET
4: DATA PACKET
5: MAPPING UPDATE
6: MAPPING CACHE UPDATE
7: DATA PACKET

FIG. 22

HOST NAME	NODE IDENTIFIER	HOME POSITION INDICATOR
aaaa	$\alpha\ \alpha\ \alpha\ \alpha$	a1 a1 a1 a1
bbbb	$\beta\ \beta\ \beta\ \beta$	b1 b1 b1 b1
cccc	$\gamma\ \gamma\ \gamma\ \gamma$	c1 c1 c1 c1
⋮	⋮	⋮

FIG. 23

SOURCE: TERMINAL DEVICE 13 ADDRESS DESTINATION: HOME POSITION INDICATOR+NODE IDENTIFIER OF TERMINAL DEVICE 11
DATA

FIG. 24

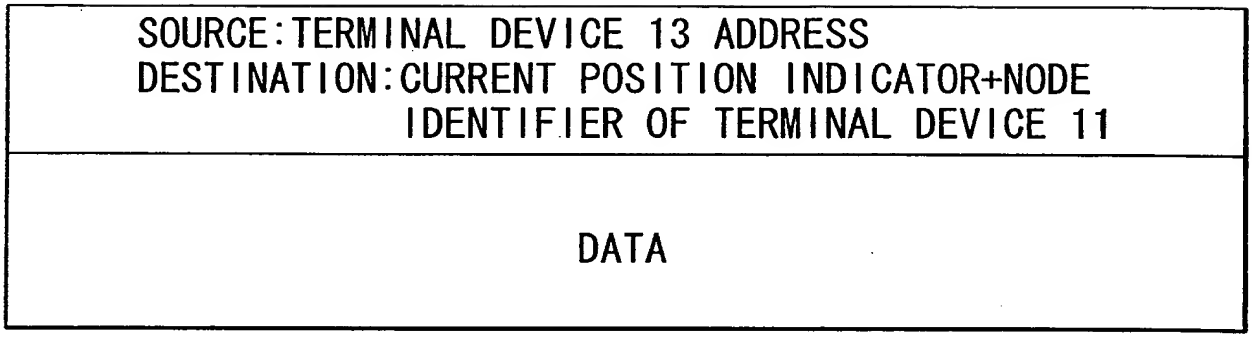

SOURCE:TERMINAL DEVICE 13 ADDRESS
DESTINATION:CURRENT POSITION INDICATOR+NODE IDENTIFIER OF TERMINAL DEVICE 11
DATA

FIG. 25

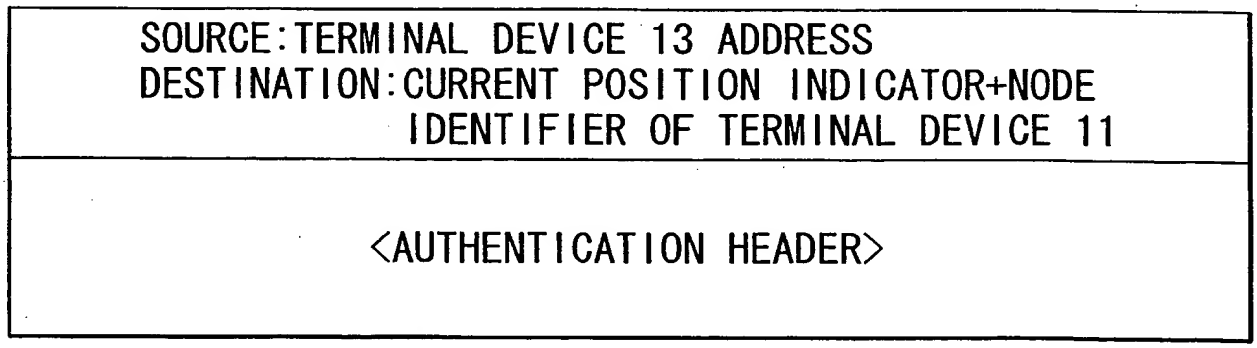

SOURCE:TERMINAL DEVICE 13 ADDRESS
DESTINATION:CURRENT POSITION INDICATOR+NODE IDENTIFIER OF TERMINAL DEVICE 11
<AUTHENTICATION HEADER>

FIG. 26

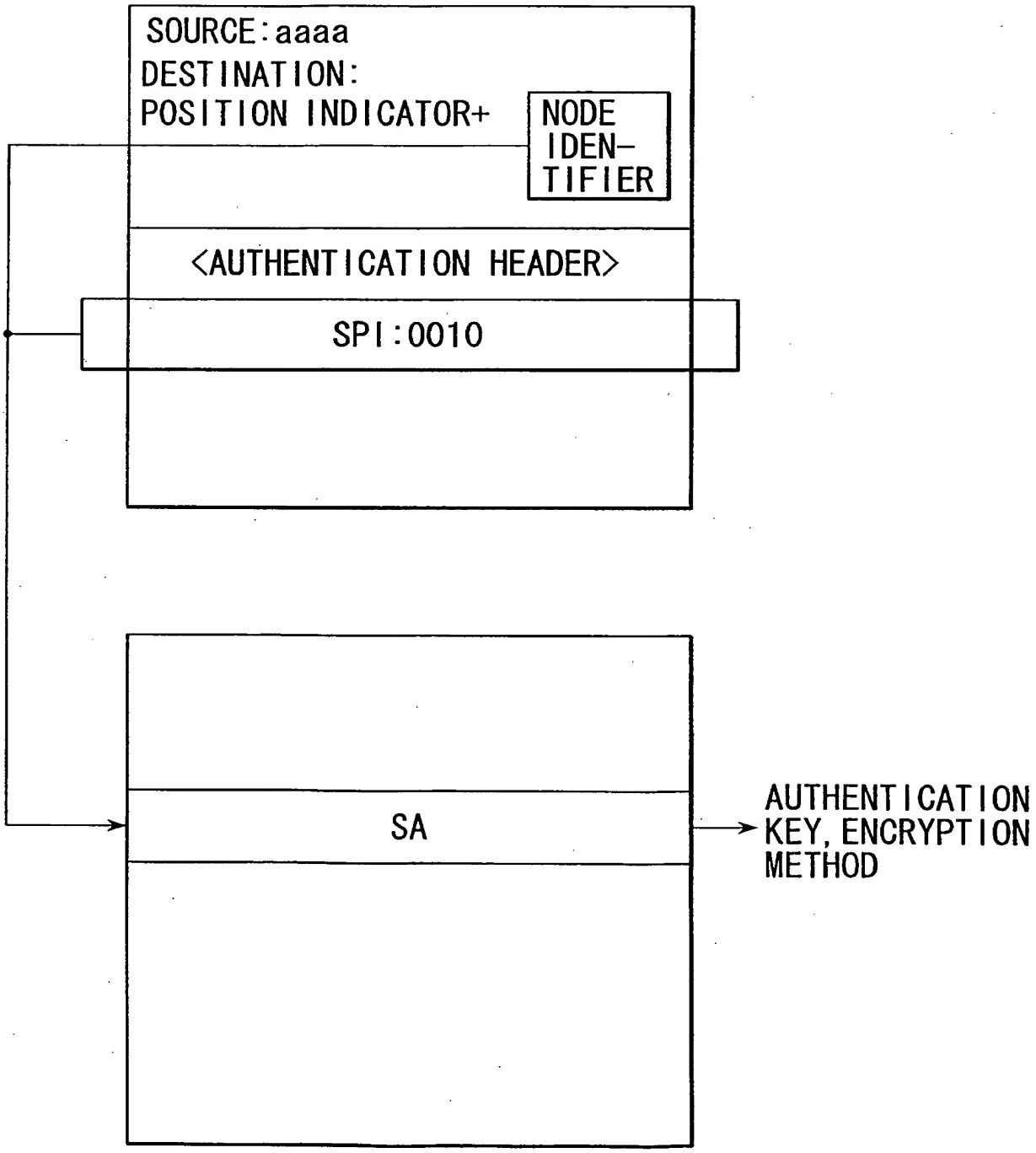

SOURCE:aaaa
DESTINATION:
POSITION INDICATOR+
NODE IDEN-TIFIER
<AUTHENTICATION HEADER>
SPI:0010
SA
AUTHENTICATION KEY, ENCRYPTION METHOD

FIG. 27

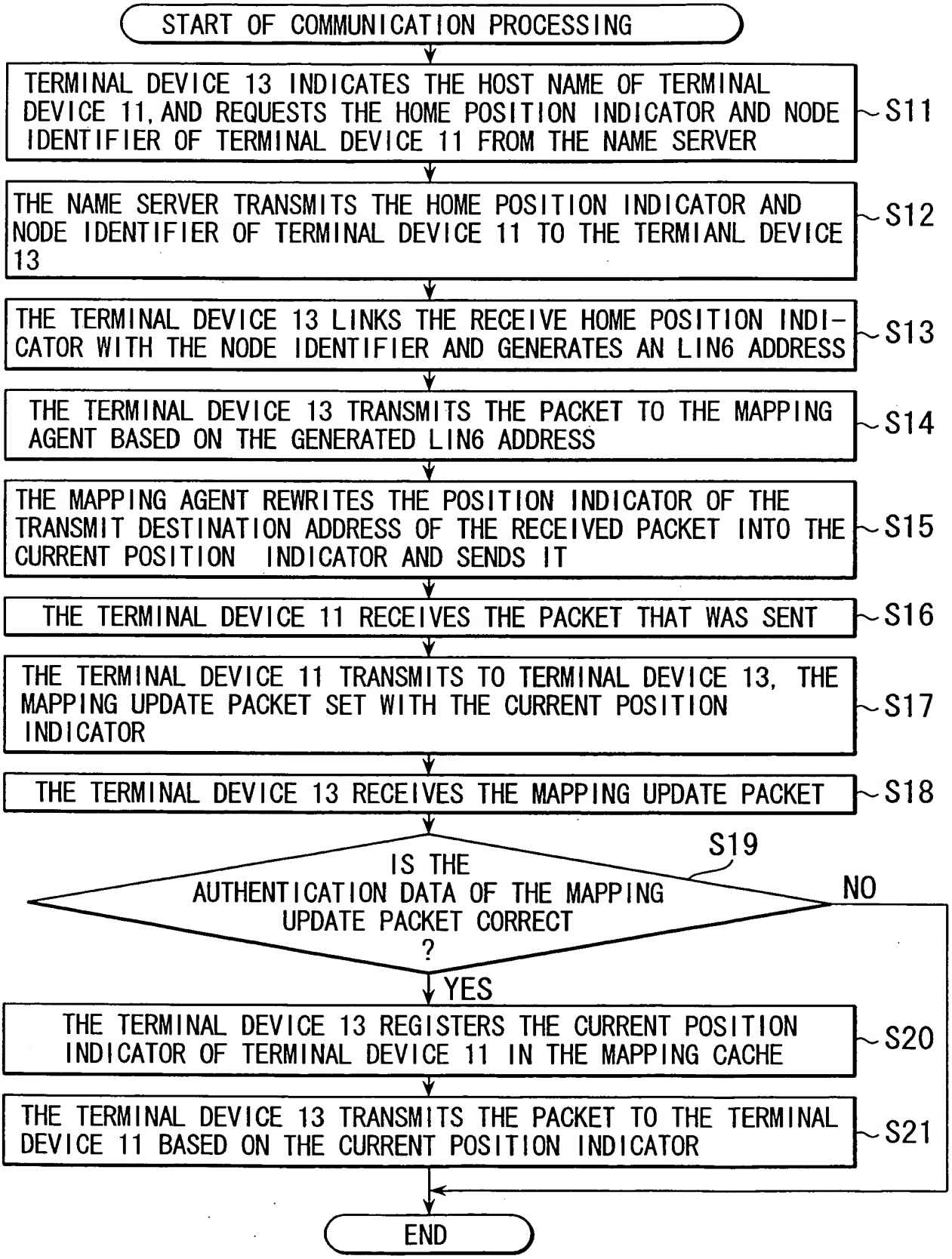

START OF COMMUNICATION PROCESSING
TERMINAL DEVICE 13 INDICATES THE HOST NAME OF TERMINAL DEVICE 11, AND REQUESTS THE HOME POSITION INDICATOR AND NODE IDENTIFIER OF TERMINAL DEVICE 11 FROM THE NAME SERVER
S11
THE NAME SERVER TRANSMITS THE HOME POSITION INDICATOR AND NODE IDENTIFIER OF TERMINAL DEVICE 11 TO THE TERMIANL DEVICE 13
S12
THE TERMINAL DEVICE 13 LINKS THE RECEIVE HOME POSITION INDICATOR WITH THE NODE IDENTIFIER AND GENERATES AN LIN6 ADDRESS
S13
THE TERMINAL DEVICE 13 TRANSMITS THE PACKET TO THE MAPPING AGENT BASED ON THE GENERATED LIN6 ADDRESS
S14
THE MAPPING AGENT REWRITES THE POSITION INDICATOR OF THE TRANSMIT DESTINATION ADDRESS OF THE RECEIVED PACKET INTO THE CURRENT POSITION INDICATOR AND SENDS IT
S15
THE TERMINAL DEVICE 11 RECEIVES THE PACKET THAT WAS SENT
S16
THE TERMINAL DEVICE 11 TRANSMITS TO TERMINAL DEVICE 13, THE MAPPING UPDATE PACKET SET WITH THE CURRENT POSITION INDICATOR
S17
THE TERMINAL DEVICE 13 RECEIVES THE MAPPING UPDATE PACKET
S18
S19
IS THE AUTHENTICATION DATA OF THE MAPPING UPDATE PACKET CORRECT ?
NO
YES
THE TERMINAL DEVICE 13 REGISTERS THE CURRENT POSITION INDICATOR OF TERMINAL DEVICE 11 IN THE MAPPING CACHE
S20
THE TERMINAL DEVICE 13 TRANSMITS THE PACKET TO THE TERMINAL DEVICE 11 BASED ON THE CURRENT POSITION INDICATOR
S21
END

FIG. 28

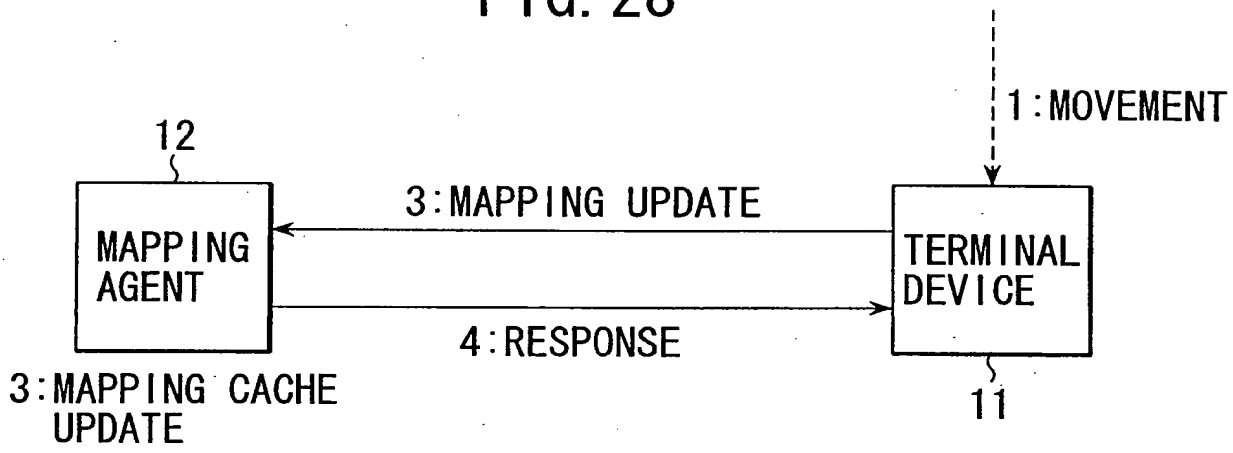


FIG. 29

SOURCE:CURRENT POSITION INDICATOR+NODE IDENTIFIER OF TERMINAL DEVICE 11 DESTINATION:MAPPING AGENT ADDRESS
<AUTHENTICATION HEADER>

FIG. 30

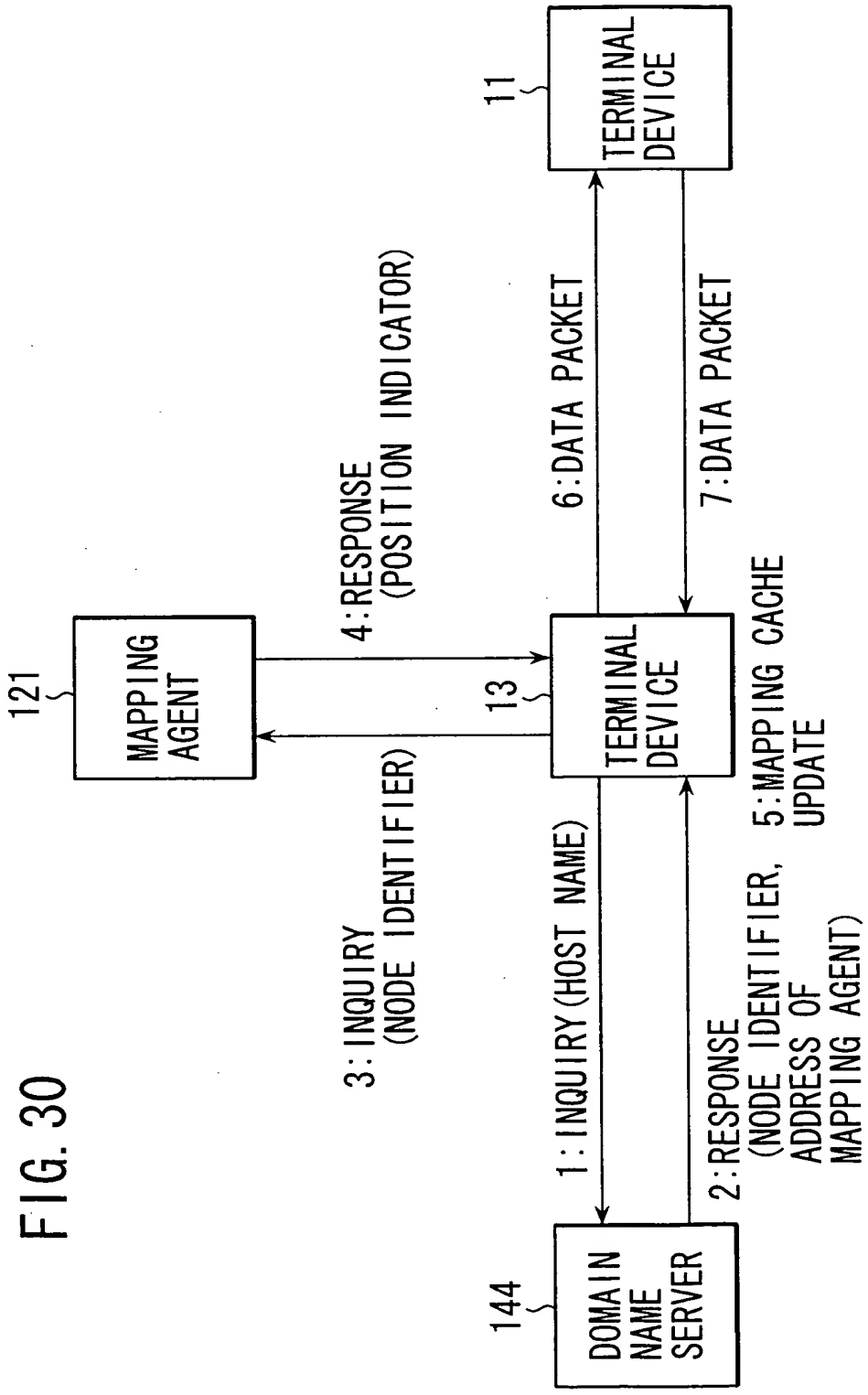

11
TERMINAL DEVICE
121
MAPPING AGENT
13
TERMINAL DEVICE
144
DOMAIN NAME SERVER
4:RESPONSE (POSITION INDICATOR)
3:INQUIRY (NODE IDENTIFIER)
6:DATA PACKET
7:DATA PACKET
1:INQUIRY (HOST NAME)
2:RESPONSE (NODE IDENTIFIER, ADDRESS OF MAPPING AGENT)
5:MAPPING CACHE UPDATE

FIG. 31

HOST NAME	NODE IDENTIFIER	MAPPING AGENT ADDRESS
aaaa	$\alpha\ \alpha\ \alpha\ \alpha$	iiii, jjjj, kkkk
bbbb	$\beta\ \beta\ \beta\ \beta$	mmmm
cccc	$\gamma\ \gamma\ \gamma\ \gamma$	nnnn, oooo
⋮	⋮	⋮

FIG. 32

NODE IDENTIFIER	CURRENT POSITION INDICATOR
$\alpha\ \alpha\ \alpha\ \alpha$	e1 e1 e1 e1

FIG. 33

SOURCE:TERMINAL DEVICE 13 ADDRESS DESTINATION:POSITION INDICATOR+NODE IDENTIFIER OF TERMINAL DEVICE 11
DATA

FIG. 34

SOURCE:POSITION INDICATOR+NODE IDENTIFIER OF TERMINAL DEVICE 11 DESTINATION:TERMINAL DEVICE 13 ADDRESS
DATA

FIG. 35

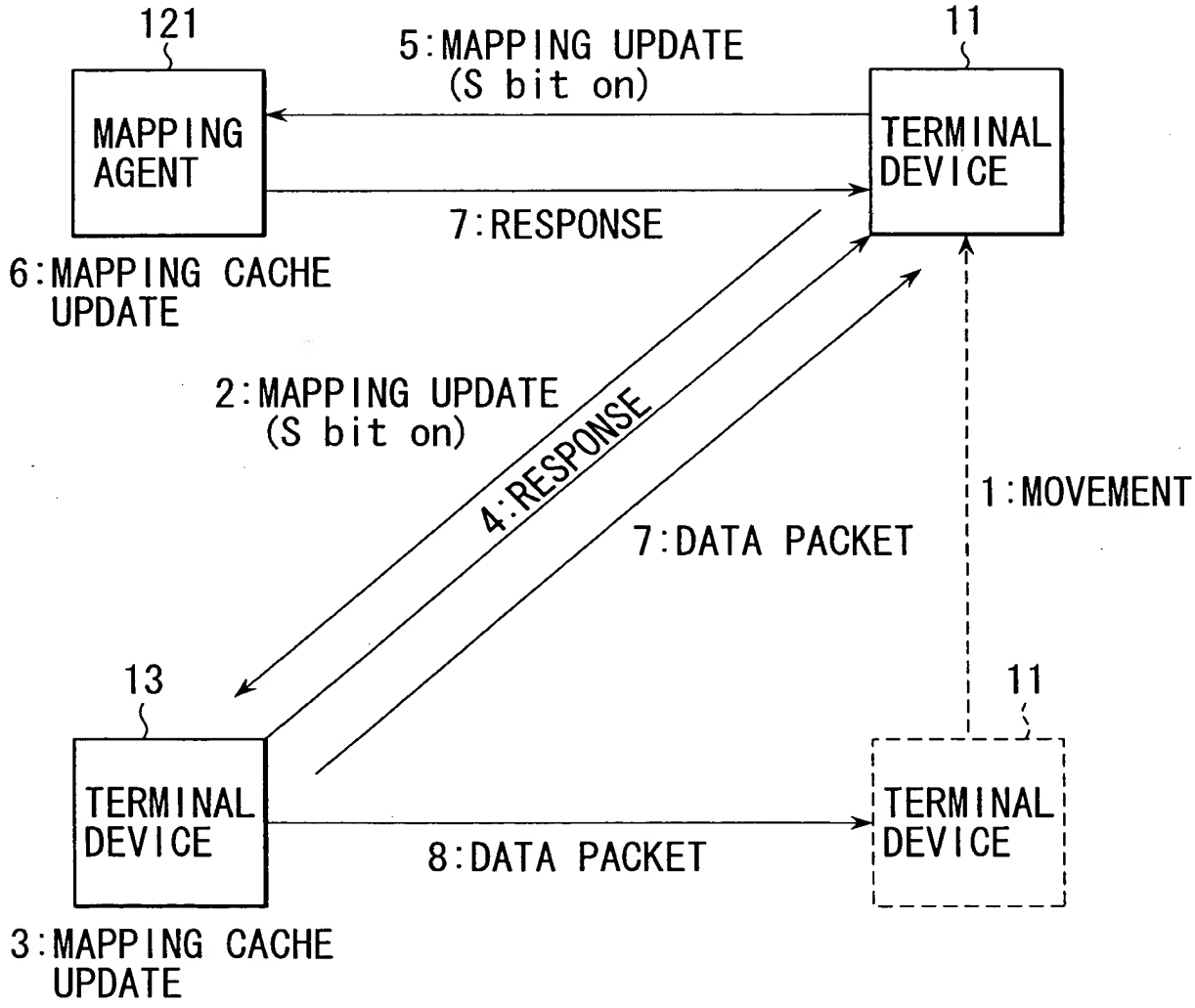

121
5:MAPPING UPDATE
(S bit on)
11
MAPPING AGENT
TERMINAL DEVICE
7:RESPONSE
6:MAPPING CACHE UPDATE
2:MAPPING UPDATE
(S bit on)
4:RESPONSE
1:MOVEMENT
7:DATA PACKET
13
11
TERMINAL DEVICE
TERMINAL DEVICE
8:DATA PACKET
3:MAPPING CACHE UPDATE

FIG. 36

SOURCE:NEW POSITION INDICATOR+NODE IDENTIFIER OF TERMINAL DEVICE 11 DESTINATION:TERMINAL DEVICE 13 ADDRESS
<AUTHENTICATION HEADER>
NEW POSITION INDICATOR
OLD POSITION INDICATOR
CURRENT TIME
EFFECTIVE TIME

FIG. 37

SOURCE:NEW POSITION INDICATOR+NODE IDENTIFIER OF TERMINAL DEVICE 11 DESTINATION:MAPPING AGENT ADDRESS
<AUTHENTICATION HEADER>
NEW POSITION INDICATOR
OLD POSITION INDICATOR
CURRENT TIME
EFFECTIVE TIME

FIG. 38

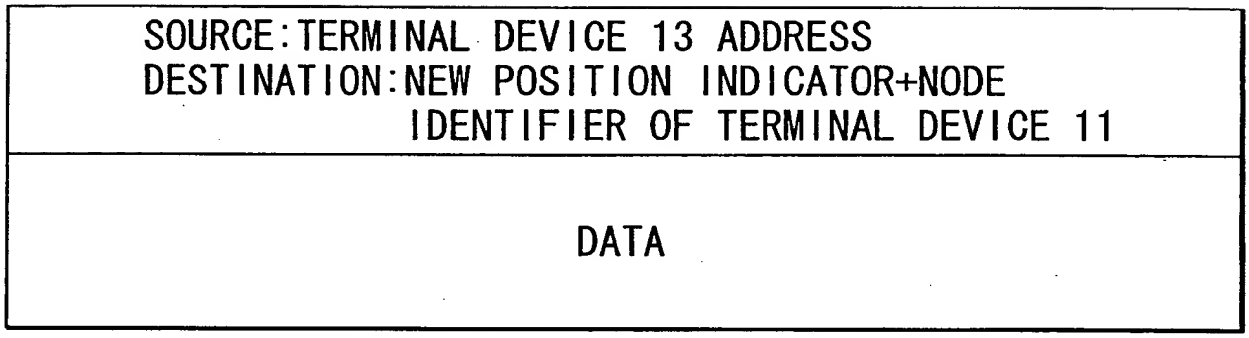

SOURCE:TERMINAL DEVICE 13 ADDRESS
DESTINATION:NEW POSITION INDICATOR+NODE
IDENTIFIER OF TERMINAL DEVICE 11
DATA

FIG. 39

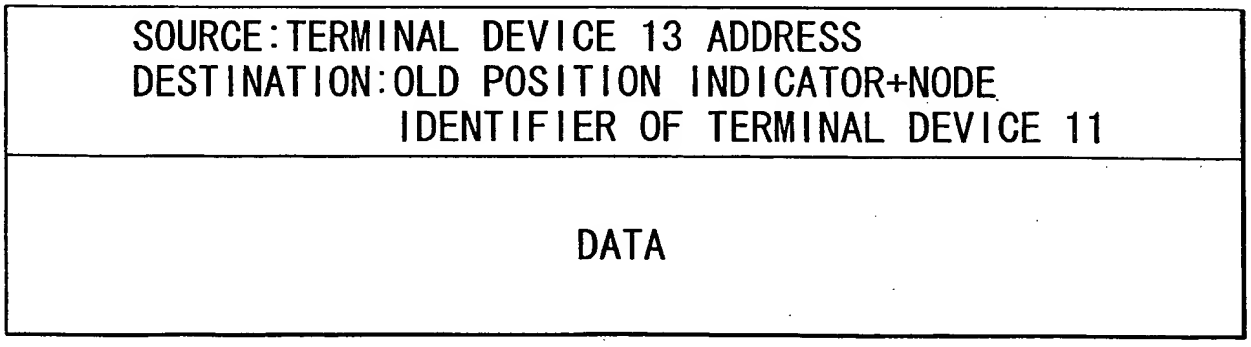

SOURCE:TERMINAL DEVICE 13 ADDRESS
DESTINATION:OLD POSITION INDICATOR+NODE
IDENTIFIER OF TERMINAL DEVICE 11
DATA

FIG. 40

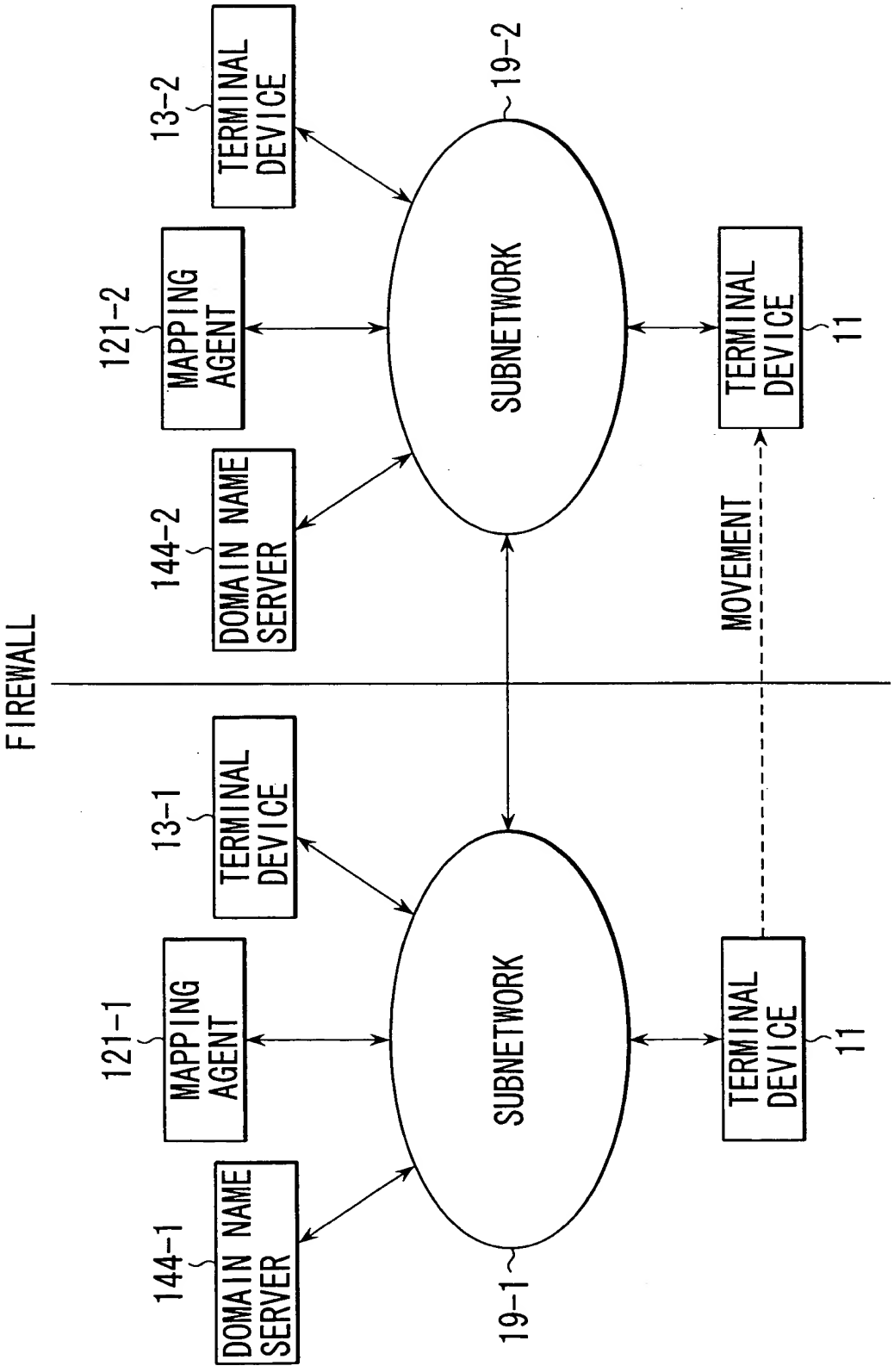

FIREWALL
MOVEMENT
SUBNETWORK
19-1
SUBNETWORK
19-2
MAPPING AGENT
121-1
MAPPING AGENT
121-2
DOMAIN NAME SERVER
144-1
DOMAIN NAME SERVER
144-2
TERMINAL DEVICE
13-1
TERMINAL DEVICE
13-2
TERMINAL DEVICE
11
TERMINAL DEVICE
11

FIG. 41

	NODE IDENTIFIER	NEW POSITION INDICATOR	OLD POSITION INDICATOR	TIME	EFFECTIVE TIME	
	$\alpha\ \alpha\ \alpha\ \alpha$	$e_1\ e_1\ e_1\ e_1$	$h_1 h_1 h_1 h_1$	10:14	20	
	$\beta\ \beta\ \beta\ \beta$	$f_1 f_1 f_1 f_1$	$i_1 i_1 i_1 i_1$	10:31	30	
	$\gamma\ \gamma\ \gamma\ \gamma$	$g_1 g_1 g_1 g_1$	$j_1 j_1 j_1 j_1$	11:03	60	
	⋮	⋮	⋮	⋮	⋮	

FIG. 42

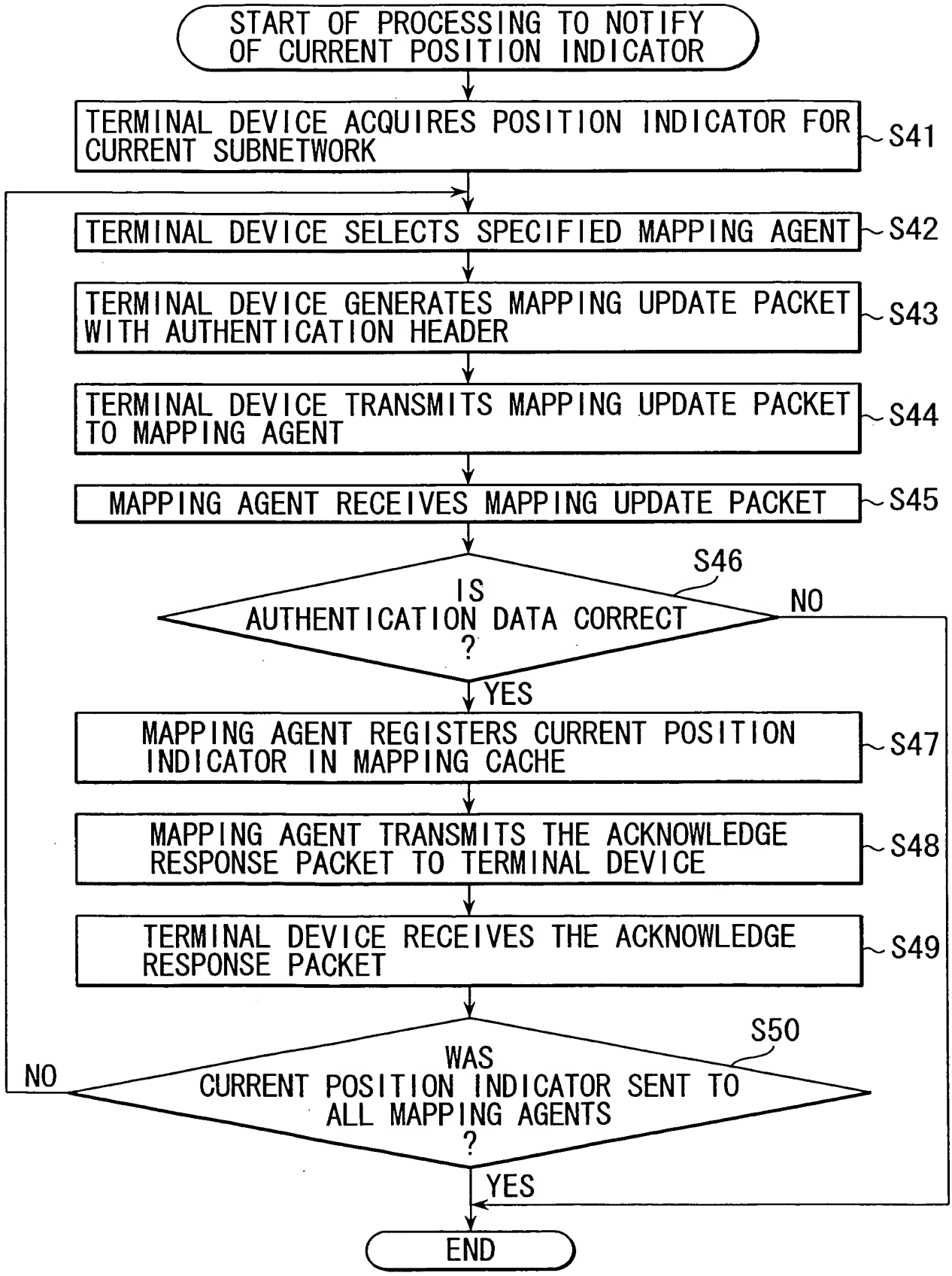

START OF PROCESSING TO NOTIFY OF CURRENT POSITION INDICATOR
TERMINAL DEVICE ACQUIRES POSITION INDICATOR FOR CURRENT SUBNETWORK
S41
TERMINAL DEVICE SELECTS SPECIFIED MAPPING AGENT
S42
TERMINAL DEVICE GENERATES MAPPING UPDATE PACKET WITH AUTHENTICATION HEADER
S43
TERMINAL DEVICE TRANSMITS MAPPING UPDATE PACKET TO MAPPING AGENT
S44
MAPPING AGENT RECEIVES MAPPING UPDATE PACKET
S45
S46
IS AUTHENTICATION DATA CORRECT ?
NO
YES
MAPPING AGENT REGISTERS CURRENT POSITION INDICATOR IN MAPPING CACHE
S47
MAPPING AGENT TRANSMITS THE ACKNOWLEDGE RESPONSE PACKET TO TERMINAL DEVICE
S48
TERMINAL DEVICE RECEIVES THE ACKNOWLEDGE RESPONSE PACKET
S49
S50
WAS CURRENT POSITION INDICATOR SENT TO ALL MAPPING AGENTS ?
NO
YES
END

FIG. 43

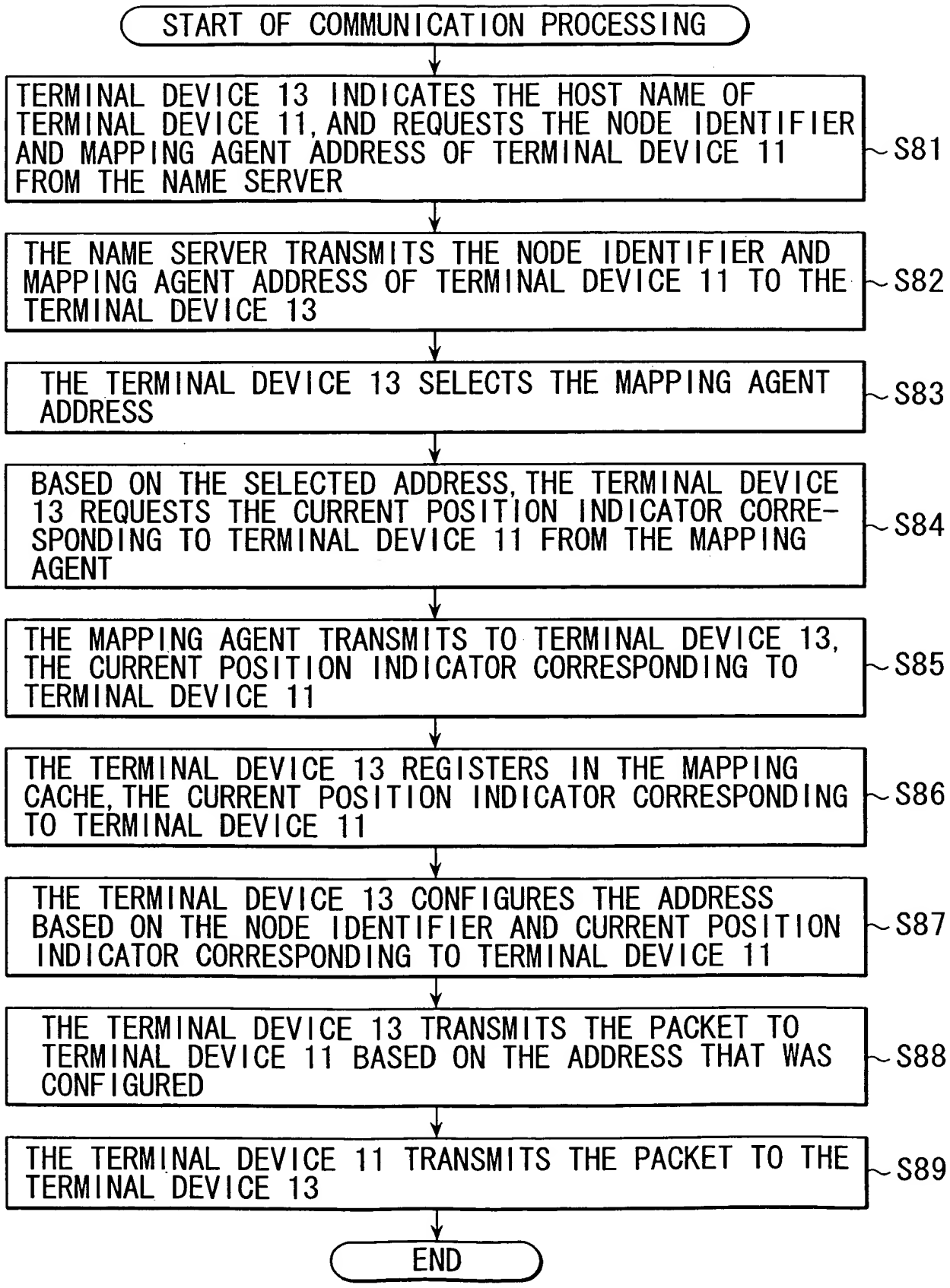

START OF COMMUNICATION PROCESSING
TERMINAL DEVICE 13 INDICATES THE HOST NAME OF TERMINAL DEVICE 11, AND REQUESTS THE NODE IDENTIFIER AND MAPPING AGENT ADDRESS OF TERMINAL DEVICE 11 FROM THE NAME SERVER
S81
THE NAME SERVER TRANSMITS THE NODE IDENTIFIER AND MAPPING AGENT ADDRESS OF TERMINAL DEVICE 11 TO THE TERMINAL DEVICE 13
S82
THE TERMINAL DEVICE 13 SELECTS THE MAPPING AGENT ADDRESS
S83
BASED ON THE SELECTED ADDRESS, THE TERMINAL DEVICE 13 REQUESTS THE CURRENT POSITION INDICATOR CORRESPONDING TO TERMINAL DEVICE 11 FROM THE MAPPING AGENT
S84
THE MAPPING AGENT TRANSMITS TO TERMINAL DEVICE 13, THE CURRENT POSITION INDICATOR CORRESPONDING TO TERMINAL DEVICE 11
S85
THE TERMINAL DEVICE 13 REGISTERS IN THE MAPPING CACHE, THE CURRENT POSITION INDICATOR CORRESPONDING TO TERMINAL DEVICE 11
S86
THE TERMINAL DEVICE 13 CONFIGURES THE ADDRESS BASED ON THE NODE IDENTIFIER AND CURRENT POSITION INDICATOR CORRESPONDING TO TERMINAL DEVICE 11
S87
THE TERMINAL DEVICE 13 TRANSMITS THE PACKET TO TERMINAL DEVICE 11 BASED ON THE ADDRESS THAT WAS CONFIGURED
S88
THE TERMINAL DEVICE 11 TRANSMITS THE PACKET TO THE TERMINAL DEVICE 13
S89
END

FIG. 44

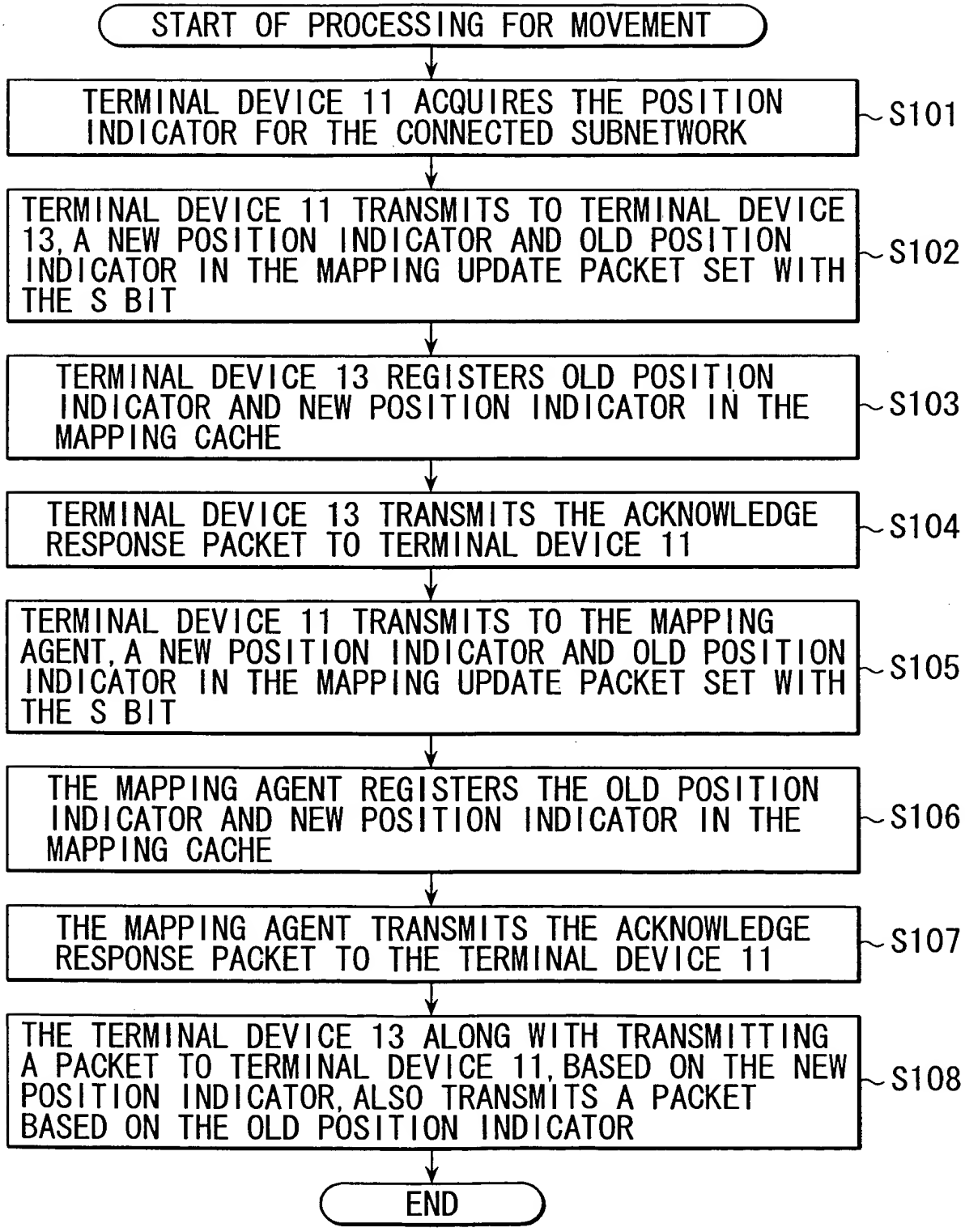

START OF PROCESSING FOR MOVEMENT
TERMINAL DEVICE 11 ACQUIRES THE POSITION INDICATOR FOR THE CONNECTED SUBNETWORK
S101
TERMINAL DEVICE 11 TRANSMITS TO TERMINAL DEVICE 13, A NEW POSITION INDICATOR AND OLD POSITION INDICATOR IN THE MAPPING UPDATE PACKET SET WITH THE S BIT
S102
TERMINAL DEVICE 13 REGISTERS OLD POSITION INDICATOR AND NEW POSITION INDICATOR IN THE MAPPING CACHE
S103
TERMINAL DEVICE 13 TRANSMITS THE ACKNOWLEDGE RESPONSE PACKET TO TERMINAL DEVICE 11
S104
TERMINAL DEVICE 11 TRANSMITS TO THE MAPPING AGENT, A NEW POSITION INDICATOR AND OLD POSITION INDICATOR IN THE MAPPING UPDATE PACKET SET WITH THE S BIT
S105
THE MAPPING AGENT REGISTERS THE OLD POSITION INDICATOR AND NEW POSITION INDICATOR IN THE MAPPING CACHE
S106
THE MAPPING AGENT TRANSMITS THE ACKNOWLEDGE RESPONSE PACKET TO THE TERMINAL DEVICE 11
S107
THE TERMINAL DEVICE 13 ALONG WITH TRANSMITTING A PACKET TO TERMINAL DEVICE 11, BASED ON THE NEW POSITION INDICATOR, ALSO TRANSMITS A PACKET BASED ON THE OLD POSITION INDICATOR
S108
END

FIG. 45

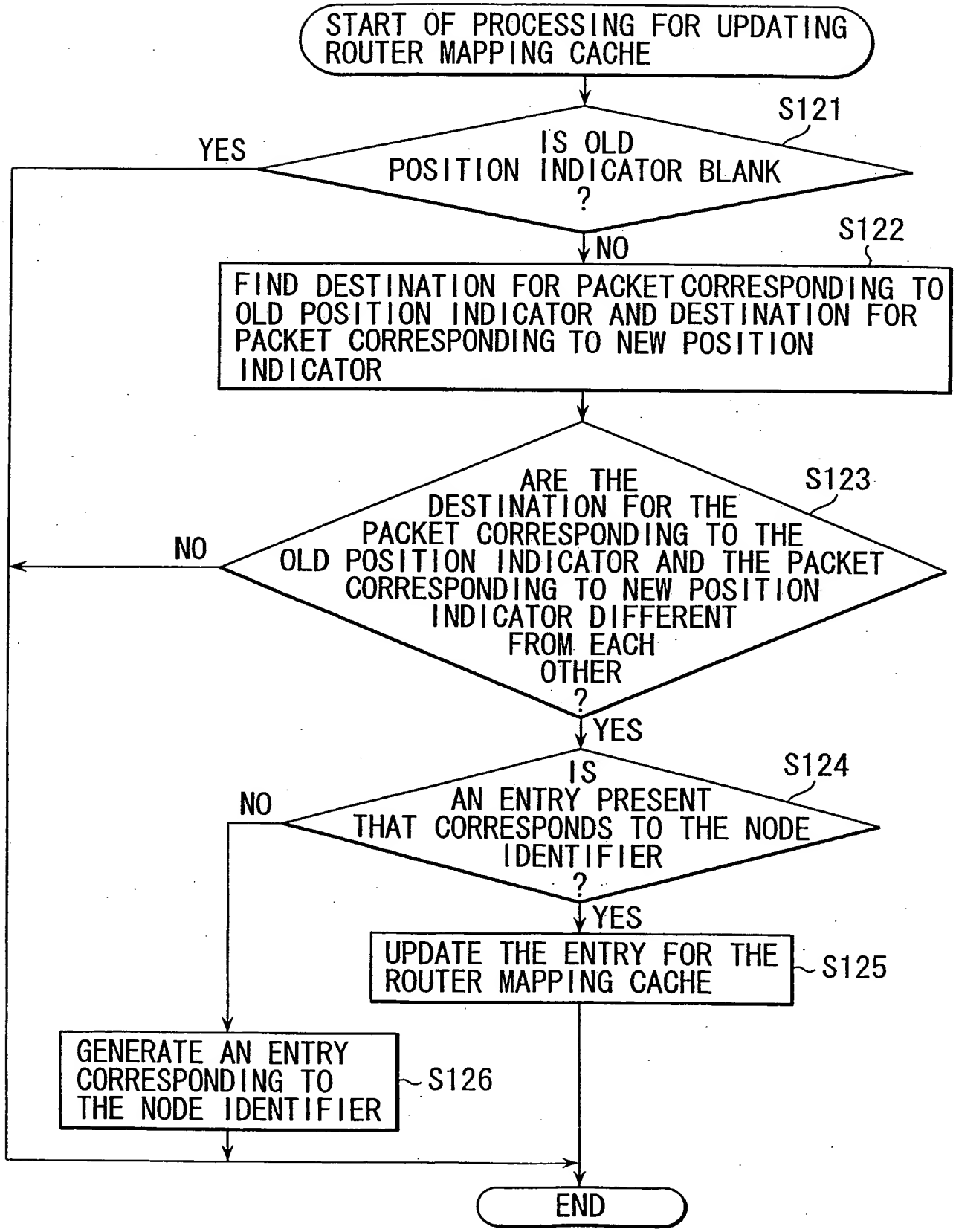

START OF PROCESSING FOR UPDATING ROUTER MAPPING CACHE
S121
IS OLD POSITION INDICATOR BLANK ?
YES
NO
S122
FIND DESTINATION FOR PACKET CORRESPONDING TO OLD POSITION INDICATOR AND DESTINATION FOR PACKET CORRESPONDING TO NEW POSITION INDICATOR
S123
ARE THE DESTINATION FOR THE PACKET CORRESPONDING TO THE OLD POSITION INDICATOR AND THE PACKET CORRESPONDING TO NEW POSITION INDICATOR DIFFERENT FROM EACH OTHER ?
NO
YES
S124
IS AN ENTRY PRESENT THAT CORRESPONDS TO THE NODE IDENTIFIER ?
NO
YES
UPDATE THE ENTRY FOR THE ROUTER MAPPING CACHE
S125
GENERATE AN ENTRY CORRESPONDING TO THE NODE IDENTIFIER
S126
END

FIG. 46

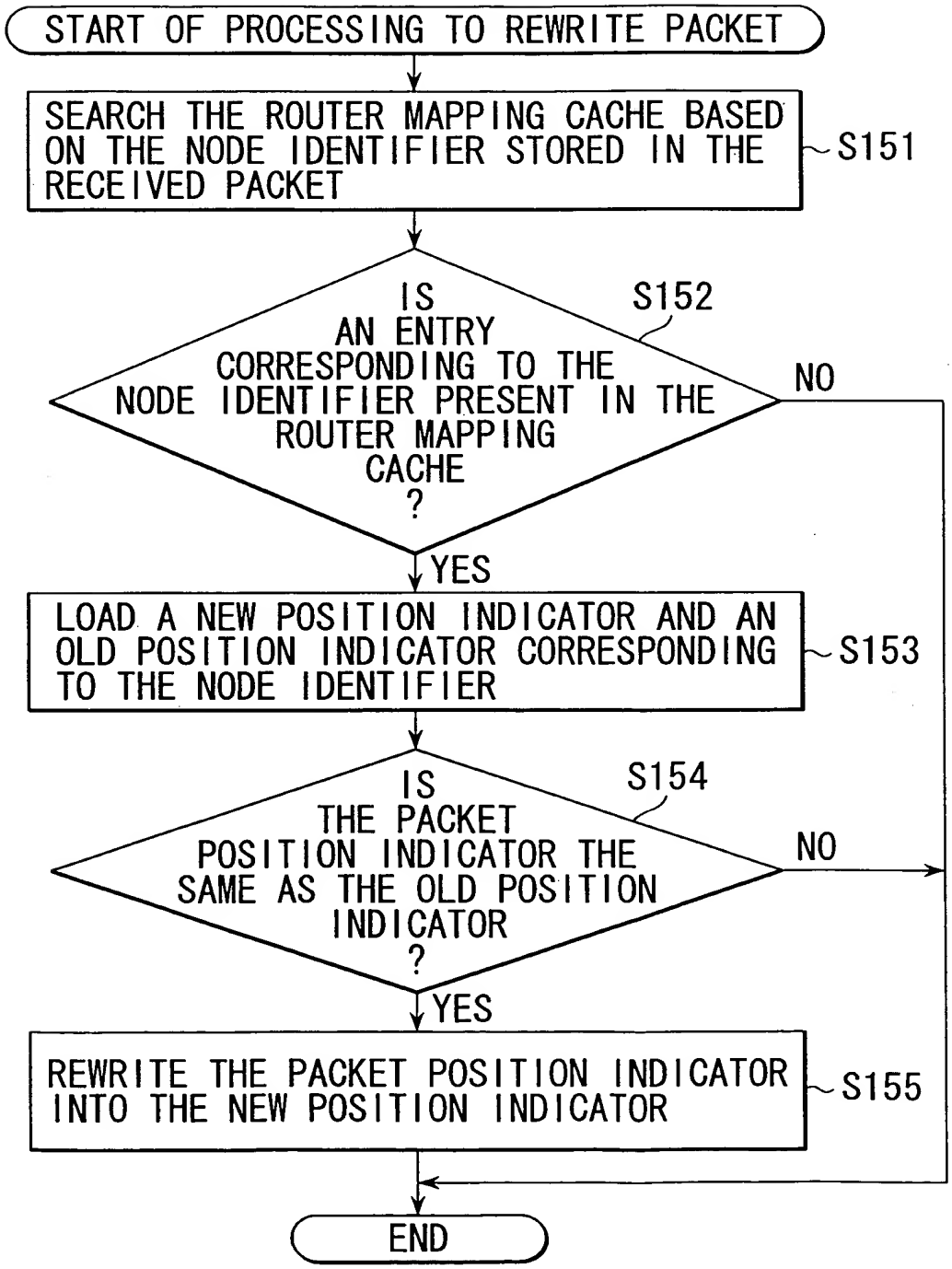

START OF PROCESSING TO REWRITE PACKET
SEARCH THE ROUTER MAPPING CACHE BASED ON THE NODE IDENTIFIER STORED IN THE RECEIVED PACKET
S151
IS AN ENTRY CORRESPONDING TO THE NODE IDENTIFIER PRESENT IN THE ROUTER MAPPING CACHE ?
S152
NO
YES
LOAD A NEW POSITION INDICATOR AND AN OLD POSITION INDICATOR CORRESPONDING TO THE NODE IDENTIFIER
S153
IS THE PACKET POSITION INDICATOR THE SAME AS THE OLD POSITION INDICATOR ?
S154
NO
YES
REWRITE THE PACKET POSITION INDICATOR INTO THE NEW POSITION INDICATOR
S155
END

FIG. 47

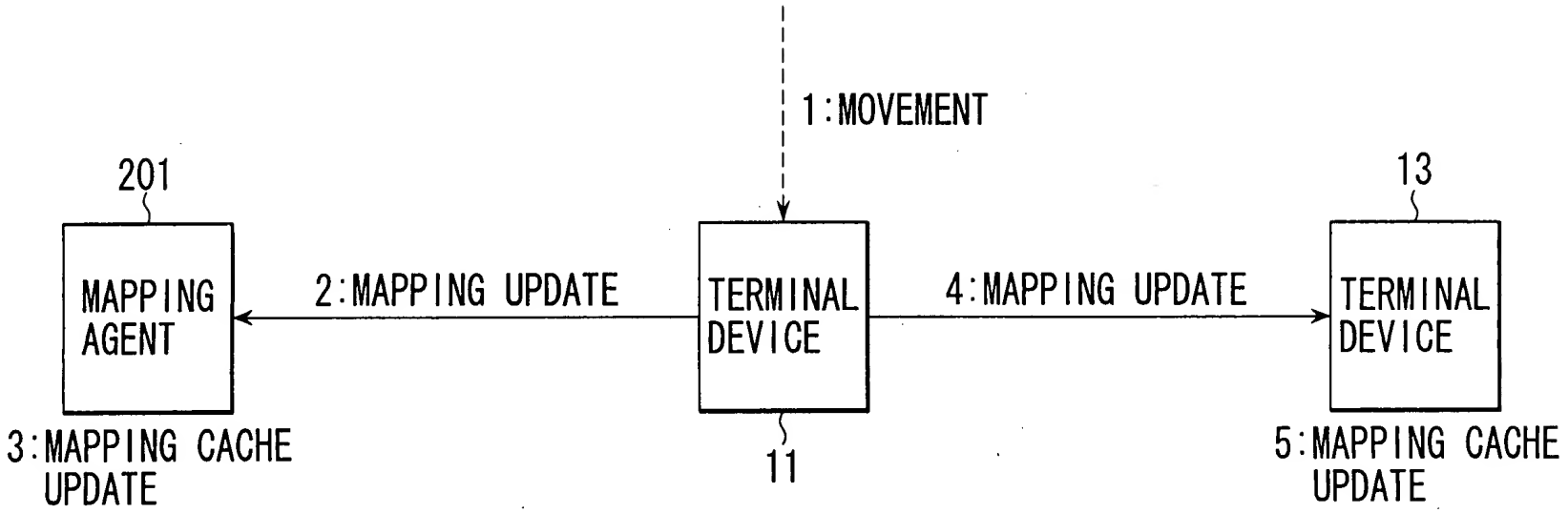

1:MOVEMENT
201
MAPPING AGENT
2:MAPPING UPDATE
TERMINAL DEVICE
11
4:MAPPING UPDATE
13
TERMINAL DEVICE
3:MAPPING CACHE UPDATE
5:MAPPING CACHE UPDATE

FIG. 48

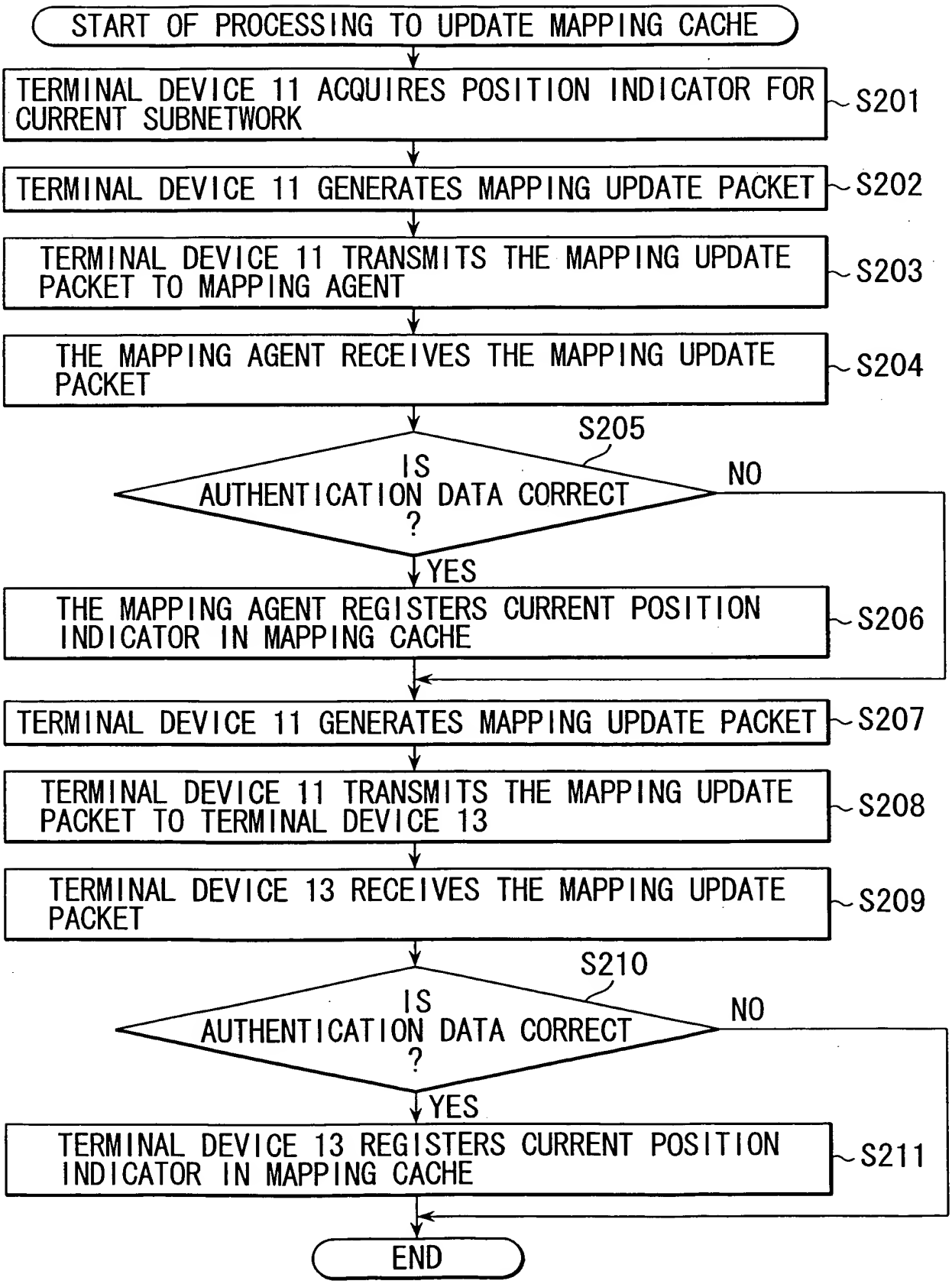

START OF PROCESSING TO UPDATE MAPPING CACHE
TERMINAL DEVICE 11 ACQUIRES POSITION INDICATOR FOR CURRENT SUBNETWORK
S201
TERMINAL DEVICE 11 GENERATES MAPPING UPDATE PACKET
S202
TERMINAL DEVICE 11 TRANSMITS THE MAPPING UPDATE PACKET TO MAPPING AGENT
S203
THE MAPPING AGENT RECEIVES THE MAPPING UPDATE PACKET
S204
S205
IS AUTHENTICATION DATA CORRECT ?
NO
YES
THE MAPPING AGENT REGISTERS CURRENT POSITION INDICATOR IN MAPPING CACHE
S206
TERMINAL DEVICE 11 GENERATES MAPPING UPDATE PACKET
S207
TERMINAL DEVICE 11 TRANSMITS THE MAPPING UPDATE PACKET TO TERMINAL DEVICE 13
S208
TERMINAL DEVICE 13 RECEIVES THE MAPPING UPDATE PACKET
S209
S210
IS AUTHENTICATION DATA CORRECT ?
NO
YES
TERMINAL DEVICE 13 REGISTERS CURRENT POSITION INDICATOR IN MAPPING CACHE
S211
END

FIG. 49

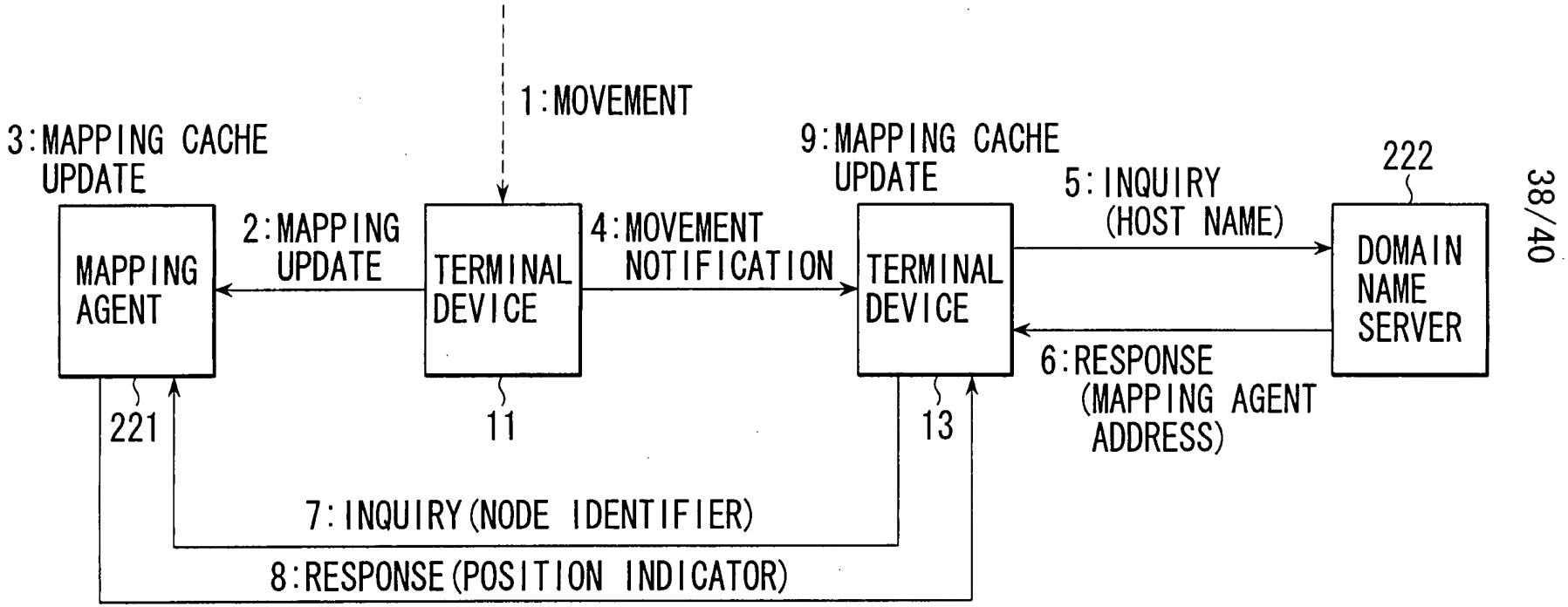

1:MOVEMENT
3:MAPPING CACHE UPDATE
9:MAPPING CACHE UPDATE
222
5:INQUIRY (HOST NAME)
2:MAPPING UPDATE
4:MOVEMENT NOTIFICATION
MAPPING AGENT
TERMINAL DEVICE
TERMINAL DEVICE
DOMAIN NAME SERVER
6:RESPONSE (MAPPING AGENT ADDRESS)
221
11
13
7:INQUIRY(NODE IDENTIFIER)
8:RESPONSE(POSITION INDICATOR)

FIG. 50

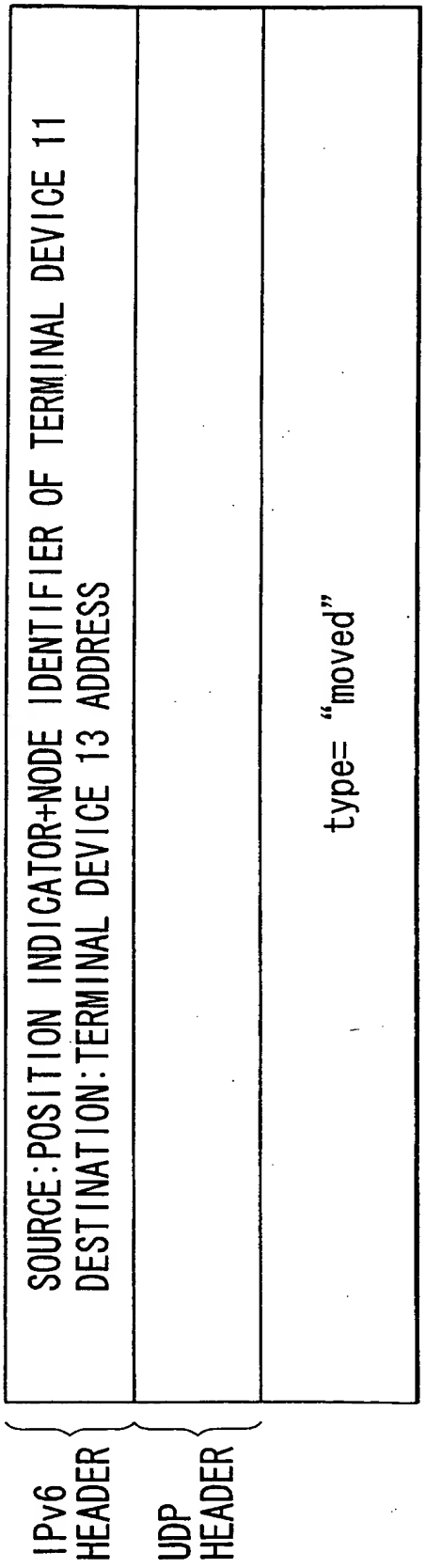
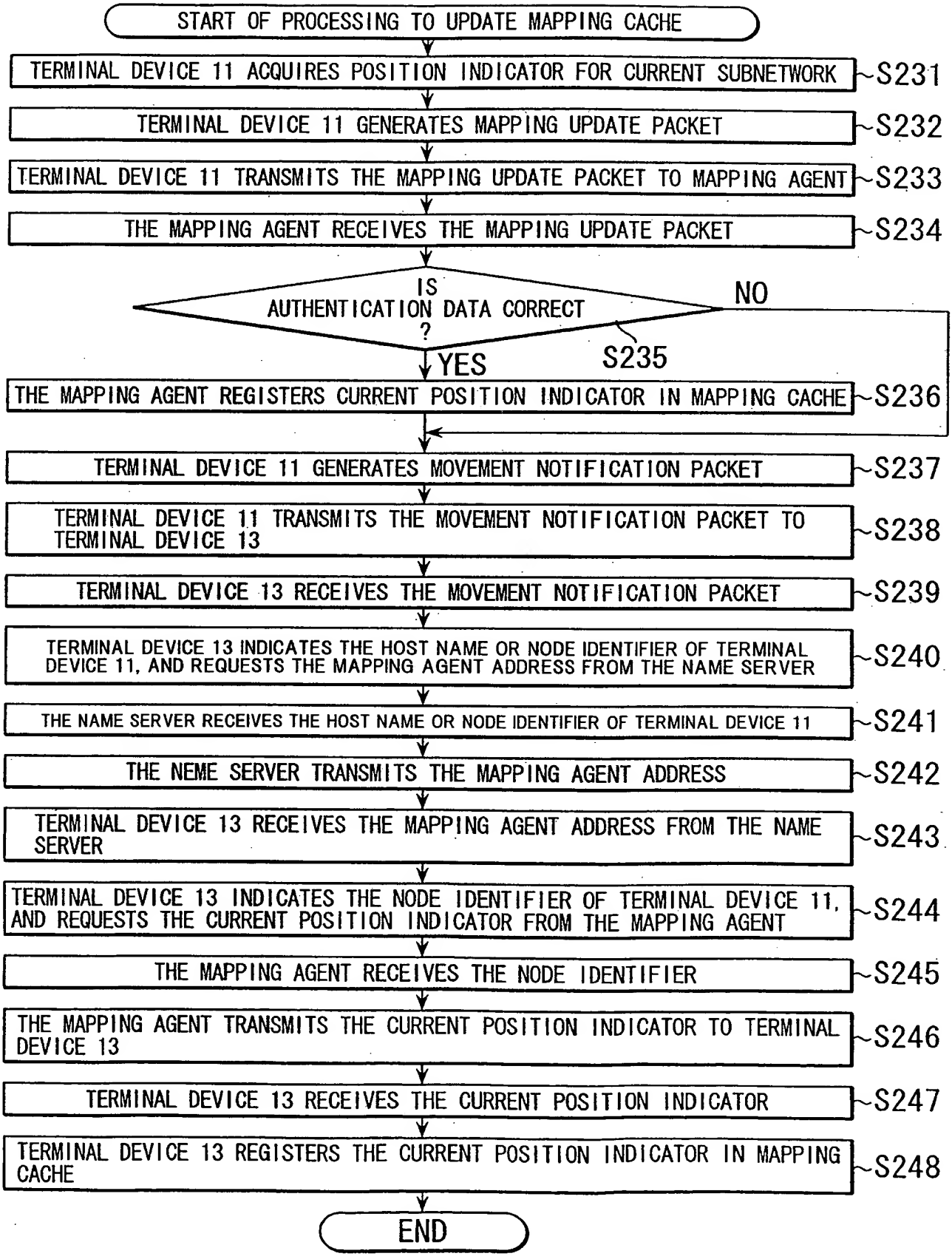

SOURCE:POSITION INDICATOR+NODE IDENTIFIER OF TERMINAL DEVICE 11
DESTINATION:TERMINAL DEVICE 13 ADDRESS
type= "moved"
IPv6 HEADER
UDP HEADER

FIG. 51


START OF PROCESSING TO UPDATE MAPPING CACHE
TERMINAL DEVICE 11 ACQUIRES POSITION INDICATOR FOR CURRENT SUBNETWORK
S231
TERMINAL DEVICE 11 GENERATES MAPPING UPDATE PACKET
S232
TERMINAL DEVICE 11 TRANSMITS THE MAPPING UPDATE PACKET TO MAPPING AGENT
S233
THE MAPPING AGENT RECEIVES THE MAPPING UPDATE PACKET
S234
IS AUTHENTICATION DATA CORRECT ?
NO
YES
S235
THE MAPPING AGENT REGISTERS CURRENT POSITION INDICATOR IN MAPPING CACHE
S236
TERMINAL DEVICE 11 GENERATES MOVEMENT NOTIFICATION PACKET
S237
TERMINAL DEVICE 11 TRANSMITS THE MOVEMENT NOTIFICATION PACKET TO TERMINAL DEVICE 13
S238
TERMINAL DEVICE 13 RECEIVES THE MOVEMENT NOTIFICATION PACKET
S239
TERMINAL DEVICE 13 INDICATES THE HOST NAME OR NODE IDENTIFIER OF TERMINAL DEVICE 11, AND REQUESTS THE MAPPING AGENT ADDRESS FROM THE NAME SERVER
S240
THE NAME SERVER RECEIVES THE HOST NAME OR NODE IDENTIFIER OF TERMINAL DEVICE 11
S241
THE NEME SERVER TRANSMITS THE MAPPING AGENT ADDRESS
S242
TERMINAL DEVICE 13 RECEIVES THE MAPPING AGENT ADDRESS FROM THE NAME SERVER
S243
TERMINAL DEVICE 13 INDICATES THE NODE IDENTIFIER OF TERMINAL DEVICE 11, AND REQUESTS THE CURRENT POSITION INDICATOR FROM THE MAPPING AGENT
S244
THE MAPPING AGENT RECEIVES THE NODE IDENTIFIER
S245
THE MAPPING AGENT TRANSMITS THE CURRENT POSITION INDICATOR TO TERMINAL DEVICE 13
S246
TERMINAL DEVICE 13 RECEIVES THE CURRENT POSITION INDICATOR
S247
TERMINAL DEVICE 13 REGISTERS THE CURRENT POSITION INDICATOR IN MAPPING CACHE
S248
END